

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

LAB CHRONICLE

OrderID:	Q3604	OrderDate:	11/10/2025 4:28:38 PM
Client:	Roman E&G Corp	Project:	MCUA - New Brunswick
Contact:	Amanda Gentle	Location:	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3604-01	S-1	SOIL			11/10/25			11/10/25
			PCB	8082A		11/12/25	11/12/25	
			EPH_NF	NJEPH		11/12/25	11/13/25	
			TCLP Herbicide	8151A		11/12/25	11/12/25	
			TCLP Pesticide	8081B		11/12/25	11/12/25	
Q3604-02	S-2	SOIL			11/10/25			11/10/25
			PCB	8082A		11/12/25	11/12/25	
			EPH_NF	NJEPH		11/12/25	11/12/25	
			TCLP Herbicide	8151A		11/12/25	11/13/25	
			TCLP Pesticide	8081B		11/12/25	11/12/25	



QC SUMMARY



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance
Lab Code: ACE
Run Number: FE111325AL

Contract: ROMA02
SDG No.: Q3604

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB170504BL	56	69		0
PB170504BS	59	67		0
PB170504BSD	60	68		0
S-1	53	64		0
S-1MS	45	52		0
S-1MSD	45	52		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROMA02
Lab Code: ACE SDG No.: Q3604
Run Number: FG111225AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)	TOT OUT
S-2	44	55	0

QC LIMITS

1-chlorooctadecane (SURR) (40-140)
ortho-Terphenyl (SURR) (40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOIL EPH SURROGATE RECOVERY

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

D Surrogate diluted out

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Roman E&G Corp</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3604</u>
Sample No :	<u>Q3604-01MS</u>	Datafile:	<u>FE056816.D</u>
		Client ID :	<u>S-1MS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	36.2	6.04	30.6	68		(40-140)
Aliphatic C9-C28	120.7	2.79	66.8	53		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	4.0	0.0067	1.8686	47		(40-140)
n-Decane (C10)	4.0	0.0082	4.3919	110		(40-140)
Naphthalene (C11.7)	4.0	0.0056	2.3410	58		(40-140)
n-Dodecane (C12)	4.0	0.0037	2.1915	55		(40-140)
2-methylnaphthalene (C12.89)	4.0	0.0031	2.2696	57		(40-140)
n-Tetradecane (C14)	4.0	0.0483	2.2926	56		(40-140)
n-Hexadecane (C16)	4.0	0.0000	2.4004	60		(40-140)
n-Octadecane (C18)	4.0	0.0060	2.4215	60		(40-140)
n-Eicosane (C20)	4.0	0.0095	2.4414	61		(40-140)
n-Heneicosane (C21)	4.0	0.0149	2.4340	60		(40-140)
n-Docosane (C22)	4.0	0.0168	2.3574	59		(40-140)
n-Tetracosane (C24)	8.0	0.0326	7.0650	88		(40-140)
n-Hexacosane (C26)	4.0	0.0156	2.1522	53		(40-140)
n-Octacosane (C28)	4.0	0.0342	2.2629	56		(40-140)
n-Tricontane (C30)	4.0	0.0599	1.9864	48		(40-140)
n-Dotriacontane (C32)	4.0	0.0648	2.0392	49		(40-140)
n-Tetratriacontane (C34)	4.0	0.0923	2.2853	55		(40-140)
n-Hexatriacontane (C36)	4.0	0.2385	2.9088	67		(40-140)
n-Octatriacontane (C38)	4.0	0.6826	3.5416	71		(40-140)
n-Tetracontane (C40)	4.0	0.1931	3.5244	83		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Roman E&G Corp
Lab Code: ACE **SDG No:** Q3604
Sample No : Q3604-01MSD **Datafile:** FE056817.D **Client ID :** S-1MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aliphatic C28-C40	36.2	6.04	32.9	74		9.01 (40-140) 50
Aliphatic C9-C28	120.7	2.79	66.5	53		0.4 (40-140) 50

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
n-Nonane (C9)	4.0	0.0067	1.8467	46		2.15 (40-140) 50
n-Decane (C10)	4.0	0.0082	4.3525	109		0.91 (40-140) 50
Naphthalene (C11.7)	4.0	0.0056	2.3180	58		0 (40-140) 50
n-Dodecane (C12)	4.0	0.0037	2.1743	54		1.83 (40-140) 50
2-methylnaphthalene (C12.89)	4.0	0.0031	2.2503	56		1.77 (40-140) 50
n-Tetradecane (C14)	4.0	0.0483	2.2763	56		0 (40-140) 50
n-Hexadecane (C16)	4.0	0.0000	2.3794	59		1.68 (40-140) 50
n-Octadecane (C18)	4.0	0.0060	2.3833	59		1.68 (40-140) 50
n-Eicosane (C20)	4.0	0.0095	2.4229	60		1.65 (40-140) 50
n-Heneicosane (C21)	4.0	0.0149	2.4173	60		0 (40-140) 50
n-Docosane (C22)	4.0	0.0168	2.3462	58		1.71 (40-140) 50
n-Tetracosane (C24)	8.0	0.0326	7.0251	87		1.14 (40-140) 50
n-Hexacosane (C26)	4.0	0.0156	2.1448	53		0 (40-140) 50
n-Octacosane (C28)	4.0	0.0342	2.2728	56		0 (40-140) 50
n-Tricontane (C30)	4.0	0.0599	2.0527	50		4.08 (40-140) 50
n-Dotriacontane (C32)	4.0	0.0648	2.1901	53		7.84 (40-140) 50
n-Tetratriacontane (C34)	4.0	0.0923	2.4609	59		7.02 (40-140) 50
n-Hexatriacontane (C36)	4.0	0.2385	3.3912	79		16.44 (40-140) 50
n-Octatriacontane (C38)	4.0	0.6826	3.7213	76		6.8 (40-140) 50
n-Tetracontane (C40)	4.0	0.1931	3.6258	86		3.55 (40-140) 50

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Roman E&G Corp</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3604</u>
Sample No :	<u>PB170504BS</u>	Datafile:	<u>FE056811.D</u>
		Client ID :	<u>PB170504BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	30.0	19.6	65		(40-140)
Aliphatic C9-C28	99.9	65.6	66		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	2.13914	65		(40-140)
n-Decane (C10)	3.3	2.21258	67		(40-140)
Naphthalene (C11.7)	3.3	2.51392	76		(40-140)
n-Dodecane (C12)	3.3	2.34300	71		(40-140)
2-methylnaphthalene (C12.89)	3.3	2.39085	72		(40-140)
n-Tetradecane (C14)	3.3	2.46502	75		(40-140)
n-Hexadecane (C16)	3.3	2.43819	74		(40-140)
n-Octadecane (C18)	3.3	2.38203	72		(40-140)
n-Eicosane (C20)	3.3	2.39178	72		(40-140)
n-Heneicosane (C21)	3.3	2.37002	72		(40-140)
n-Docosane (C22)	3.3	2.28790	69		(40-140)
n-Tetracosane (C24)	6.7	4.64110	69		(40-140)
n-Hexacosane (C26)	3.3	2.09584	64		(40-140)
n-Octacosane (C28)	3.3	2.16881	66		(40-140)
n-Tricontane (C30)	3.3	1.91696	58		(40-140)
n-Dotriacontane (C32)	3.3	1.88727	57		(40-140)
n-Tetratriacontane (C34)	3.3	1.82630	55		(40-140)
n-Hexatriacontane (C36)	3.3	1.69735	51		(40-140)
n-Octatriacontane (C38)	3.3	1.54679	47		(40-140)
n-Tetracontane (C40)	3.3	1.41480	43		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Roman E&G Corp
Lab Code: ACE **SDG No:** Q3604
Sample No : PB170504BSD **Datafile:** FE056812.D **Client ID :** PB170504BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aliphatic C28-C40	30.0	20.5	68		4.5 (40-140) 25
Aliphatic C9-C28	99.9	66.4	67		1.2 (40-140) 25

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS(%) QC Limit Of RPD
n-Nonane (C9)	3.3	2.15371	65		0 (40-140) 25
n-Decane (C10)	3.3	2.24227	68		1.48 (40-140) 25
Naphthalene (C11.7)	3.3	2.55080	77		1.31 (40-140) 25
n-Dodecane (C12)	3.3	2.37476	72		1.4 (40-140) 25
2-methylnaphthalene (C12.89)	3.3	2.42401	73		1.38 (40-140) 25
n-Tetradecane (C14)	3.3	2.49581	76		1.32 (40-140) 25
n-Hexadecane (C16)	3.3	2.46617	75		1.34 (40-140) 25
n-Octadecane (C18)	3.3	2.39308	73		1.38 (40-140) 25
n-Eicosane (C20)	3.3	2.41349	73		1.38 (40-140) 25
n-Heneicosane (C21)	3.3	2.38729	72		0 (40-140) 25
n-Docosane (C22)	3.3	2.30922	70		1.44 (40-140) 25
n-Tetracosane (C24)	6.7	4.69468	70		1.44 (40-140) 25
n-Hexacosane (C26)	3.3	2.11773	64		0 (40-140) 25
n-Octacosane (C28)	3.3	2.19343	66		0 (40-140) 25
n-Tricontane (C30)	3.3	1.98079	60		3.39 (40-140) 25
n-Dotriacontane (C32)	3.3	1.99356	60		5.13 (40-140) 25
n-Tetratriacontane (C34)	3.3	1.95620	59		7.02 (40-140) 25
n-Hexatriacontane (C36)	3.3	1.81874	55		7.55 (40-140) 25
n-Octatriacontane (C38)	3.3	1.62775	49		4.17 (40-140) 25
n-Tetracontane (C40)	3.3	1.50056	45		4.55 (40-140) 25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB170504BL

Lab Name: Alliance

Contract: ROMA02

Lab Code: ACE

SDG NO.: Q3604

Instrument ID: FID_E

Lab Sample ID: PB170504BL

Matrix: (soil/water) Solid

Date Extracted: 11/12/2025 10:15:00

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB170504BS	PB170504BS
PB170504BSD	PB170504BSD
S-1	Q3604-01
S-1MS	Q3604-01MS
S-1MSD	Q3604-01MSD
S-2	Q3604-02

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	11/10/25
Project:	MCUA - New Brunswick	Date Received:	11/10/25
Client Sample ID:	S-1	SDG No.:	Q3604
Lab Sample ID:	Q3604-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.09 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	6.04		1	1.42	2.41	mg/kg	FE056813.D	11/13/25 11:59	PB170504
Aliphatic C9-C28	Aliphatic C9-C28	2.79	J	1	1.10	4.81	mg/kg	FE056813.D	11/13/25 11:59	PB170504
Total AliphaticEPH	Total AliphaticEPH	8.83			2.52	7.22	mg/kg			
Total EPH	Total EPH	8.83			2.52	7.22	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	11/10/25
Project:	MCUA - New Brunswick	Date Received:	11/10/25
Client Sample ID:	S-1	SDG No.:	Q3604
Lab Sample ID:	Q3604-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.09 g	Final Vol:	2000 uL
Prep Method :		Prep Date	11/12/25
		Test:	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	2.79	J	1	1.10	4.81	mg/kg	11/13/25	PB170504
Aliphatic C28-C40	Aliphatic C28-C40	6.04		1	1.42	2.41	mg/kg	11/13/25	PB170504
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	26.3			40 - 140	53%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	31.9			40 - 140	64%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3604-01	Acq On:	13 Nov 2025 11:59
Client Sample ID:	S-1	Operator:	YP\AJ
Data file:	FE056813.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.836	361458	2.112	300	ug/ml
Aliphatic C12-C16	6.837	10.282	950871	5.319	200	ug/ml
Aliphatic C16-C21	10.283	13.654	5094185	27.314	300	ug/ml
Aliphatic C21-C28	13.655	17.323	1151775	5.975	400	ug/ml
Aliphatic C28-C40	17.324	22.256	11992573	75.276	600	ug/ml
Aliphatic EPH	3.214	22.256	19550862	115.996		ug/ml
ortho-Terphenyl (SURR)	11.952	11.952	6668866	31.92		ug/ml
1-chlorooctadecane (SURR)	13.389	13.389	4232525	26.27		ug/ml
Aliphatic C9-C28	3.214	17.323	7558289	40.72	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056813.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 11:59
Operator : YP\AJ
Sample : Q3604-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
S-1

Integration File: sample.E
Quant Time: Nov 14 00:17:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.952	6668866	31.922 ug/ml
Spiked Amount 50.000		Recovery =	63.84%
12) S 1-chlorooctadecane (S...	13.389	4232525	26.270 ug/ml
Spiked Amount 50.000		Recovery =	52.54%

Target Compounds

(f)=RT Delta > 1/2 Window

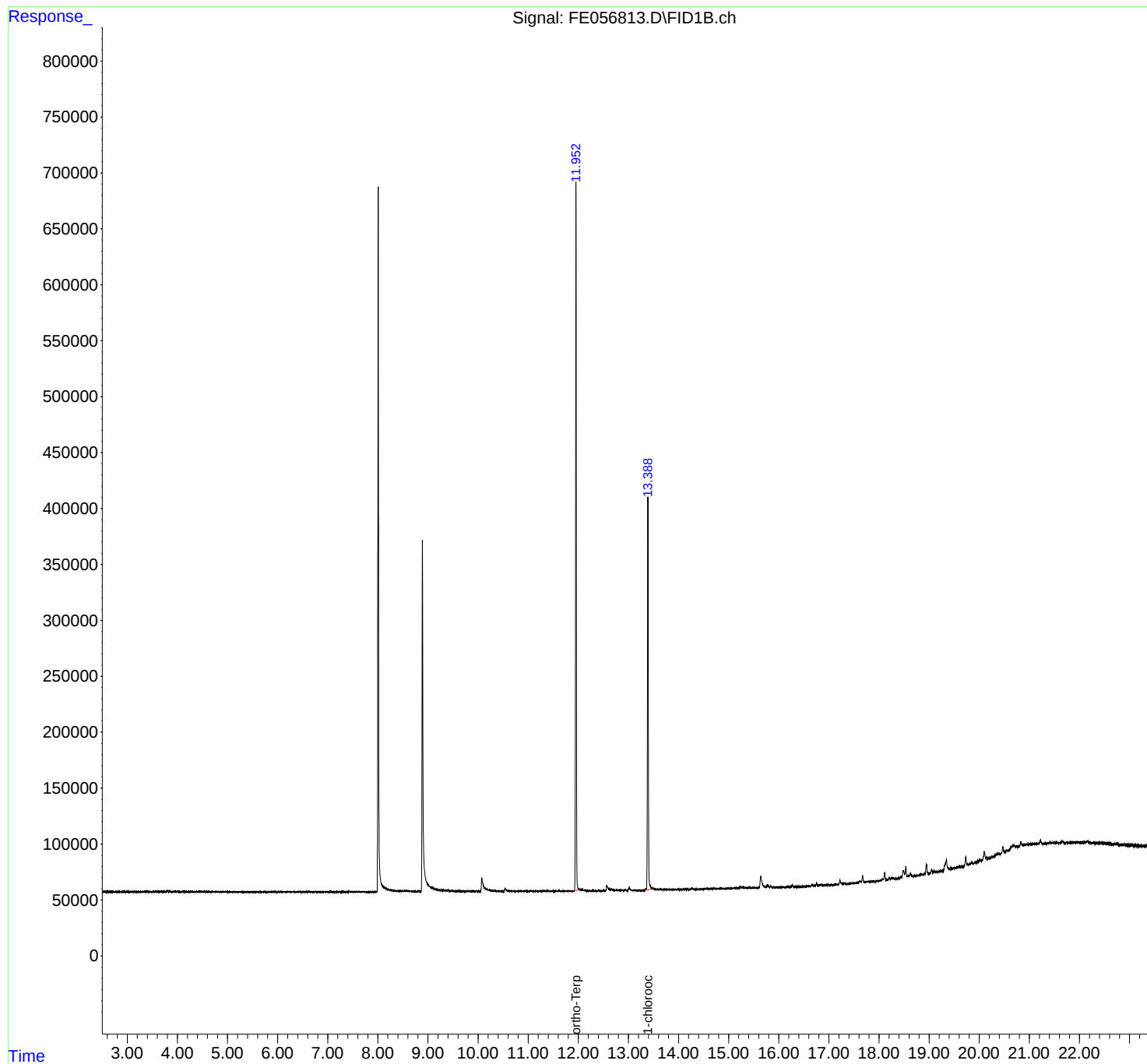
(m)=manual int.

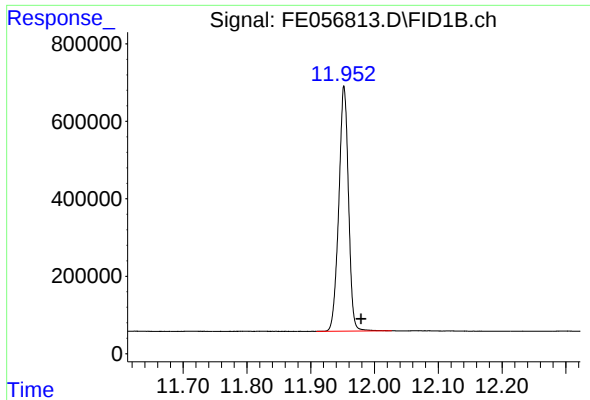
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056813.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 11:59
Operator : YP\AJ
Sample : Q3604-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
S-1

Integration File: sample.E
Quant Time: Nov 14 00:17:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

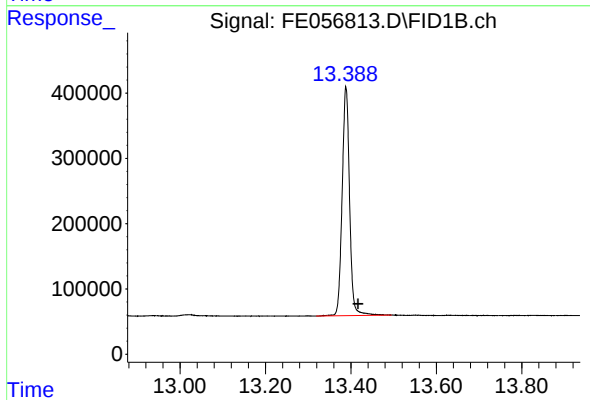




#9 ortho-Terphenyl (SURR)

R.T.: 11.952 min
Delta R.T.: -0.026 min
Response: 6668866
Conc: 31.92 ug/ml

Instrument :
FID_E
ClientSampleId :
S-1



#12 1-chlorooctadecane (SURR)

R.T.: 13.389 min
Delta R.T.: -0.029 min
Response: 4232525
Conc: 26.27 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056813.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 11:59
 Sample : Q3604-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.555	2.524	2.588	BV	69	867	0.01%	0.003%
2	2.643	2.588	2.772	PV	156	6305	0.09%	0.024%
3	2.783	2.772	2.804	VV	91	1064	0.02%	0.004%
4	2.828	2.804	2.856	VV	119	2238	0.03%	0.008%
5	2.868	2.856	2.920	VV	137	3152	0.05%	0.012%
6	2.945	2.920	2.973	VV	128	1768	0.03%	0.007%
7	2.997	2.973	3.011	VV	118	1646	0.02%	0.006%
8	3.025	3.011	3.071	VV	89	2434	0.04%	0.009%
9	3.118	3.071	3.151	VV	158	4343	0.06%	0.016%
10	3.163	3.151	3.188	VV	113	2055	0.03%	0.008%
11	3.203	3.188	3.225	VV	119	1668	0.02%	0.006%
12	3.236	3.225	3.247	VV	95	991	0.01%	0.004%
13	3.311	3.247	3.389	VV	310	14006	0.21%	0.053%
14	3.394	3.389	3.419	VV	181	2736	0.04%	0.010%
15	3.534	3.419	3.558	VV	380	15636	0.23%	0.059%
16	3.627	3.558	3.742	VV	282	22181	0.33%	0.084%
17	3.762	3.742	3.781	VV	356	6183	0.09%	0.023%
18	3.804	3.781	3.888	VV	1199	33605	0.50%	0.128%
19	3.895	3.888	3.902	VV	289	2253	0.03%	0.009%
20	3.940	3.902	3.971	VV	512	15271	0.23%	0.058%
21	3.981	3.971	4.044	VV	360	11944	0.18%	0.045%
22	4.106	4.044	4.151	VV	328	15192	0.23%	0.058%
23	4.184	4.151	4.221	VV	279	9262	0.14%	0.035%
24	4.226	4.221	4.232	VV	257	1394	0.02%	0.005%
25	4.238	4.232	4.265	VV	251	3859	0.06%	0.015%
26	4.272	4.265	4.278	VV	239	1555	0.02%	0.006%
27	4.321	4.278	4.350	VV	279	9788	0.15%	0.037%
28	4.367	4.350	4.376	VV	267	3571	0.05%	0.014%
29	4.393	4.376	4.418	VV	371	7025	0.10%	0.027%
30	4.443	4.418	4.468	VV	314	7284	0.11%	0.028%
31	4.479	4.468	4.531	VV	239	7885	0.12%	0.030%
32	4.567	4.531	4.601	VV	363	10604	0.16%	0.040%
33	4.612	4.601	4.659	VV	236	7020	0.10%	0.027%
34	4.680	4.659	4.721	VV	271	6295	0.09%	0.024%
35	4.747	4.721	4.798	VV	338	10187	0.15%	0.039%
36	4.806	4.798	4.898	VV	213	8501	0.13%	0.032%

					rteres			
37	4.905	4.898	4.934	VV	182	2841	0.04%	0.011%
38	4.953	4.934	4.973	VV	196	3625	0.05%	0.014%
39	4.981	4.973	4.994	VV	195	2106	0.03%	0.008%
40	5.002	4.994	5.028	VV	232	3207	0.05%	0.012%
41	5.058	5.028	5.094	VV	200	5352	0.08%	0.020%
42	5.113	5.094	5.171	VV	160	4783	0.07%	0.018%
43	5.180	5.171	5.198	VV	122	1517	0.02%	0.006%
44	5.204	5.198	5.218	VV	109	955	0.01%	0.004%
45	5.241	5.218	5.252	VV	189	2429	0.04%	0.009%
46	5.261	5.252	5.332	VV	168	4421	0.07%	0.017%
47	5.337	5.332	5.404	VV	91	2336	0.03%	0.009%
48	5.428	5.404	5.504	VV	100	2561	0.04%	0.010%
49	5.515	5.504	5.528	PV	59	576	0.01%	0.002%
50	5.541	5.528	5.621	VV	165	4975	0.07%	0.019%
51	5.626	5.621	5.667	VV	104	1959	0.03%	0.007%
52	5.677	5.667	5.692	VV	62	841	0.01%	0.003%
53	5.713	5.692	5.788	VV	160	4693	0.07%	0.018%
54	5.805	5.788	5.834	VV	130	2680	0.04%	0.010%
55	5.852	5.834	5.927	VV	190	5913	0.09%	0.022%
56	5.941	5.927	5.960	VV	97	1292	0.02%	0.005%
57	6.018	5.960	6.028	VV	151	2874	0.04%	0.011%
58	6.036	6.028	6.054	VV	84	1102	0.02%	0.004%
59	6.066	6.054	6.078	VV	184	1595	0.02%	0.006%
60	6.087	6.078	6.155	VV	169	4629	0.07%	0.018%
61	6.165	6.155	6.174	VV	122	921	0.01%	0.003%
62	6.188	6.174	6.217	VV	131	2137	0.03%	0.008%
63	6.227	6.217	6.235	VV	73	725	0.01%	0.003%
64	6.279	6.235	6.304	PV	208	4553	0.07%	0.017%
65	6.329	6.304	6.367	VV	284	8232	0.12%	0.031%
66	6.383	6.367	6.410	VV	210	3988	0.06%	0.015%
67	6.447	6.410	6.474	VV	642	10481	0.16%	0.040%
68	6.519	6.474	6.529	VV	146	3635	0.05%	0.014%
69	6.550	6.529	6.597	VV	166	4629	0.07%	0.018%
70	6.631	6.597	6.679	VV	234	7214	0.11%	0.027%
71	6.686	6.679	6.719	VV	103	2513	0.04%	0.010%
72	6.736	6.719	6.771	VV	265	4470	0.07%	0.017%
73	6.774	6.771	6.792	VV	130	1073	0.02%	0.004%
74	6.817	6.792	6.854	VV	155	3397	0.05%	0.013%
75	6.862	6.854	6.874	VV	78	848	0.01%	0.003%
76	6.927	6.874	6.954	VV	99	3031	0.04%	0.012%
77	6.963	6.954	6.982	VV	107	1307	0.02%	0.005%
78	6.991	6.982	7.009	VV	99	932	0.01%	0.004%
79	7.021	7.009	7.119	PV	142	6685	0.10%	0.025%
80	7.129	7.119	7.150	VV	151	1849	0.03%	0.007%
81	7.170	7.150	7.203	VV	164	3599	0.05%	0.014%
82	7.208	7.203	7.255	VV	98	3235	0.05%	0.012%
83	7.264	7.255	7.294	VV	136	2088	0.03%	0.008%
84	7.315	7.294	7.339	VV	150	3091	0.05%	0.012%
85	7.367	7.339	7.438	VV	162	6897	0.10%	0.026%
86	7.463	7.438	7.499	VV	279	7254	0.11%	0.028%
87	7.529	7.499	7.541	VV	214	4018	0.06%	0.015%
88	7.594	7.541	7.663	VV	249	13535	0.20%	0.051%
89	7.691	7.663	7.781	VV	352	11411	0.17%	0.043%

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90	7.805	7.781	7.825	VV	127	2695	0.04%	0.010%
91	7.851	7.825	7.914	VV	95	4592	0.07%	0.017%
92	8.483	8.444	8.528	VV	947	39356	0.58%	0.149%
93	8.569	8.528	8.861	VV	1367	105016	1.56%	0.399%
94	9.312	9.298	9.377	VV	1392	55673	0.83%	0.211%
95	9.399	9.377	9.561	VV	1501	85400	1.27%	0.324%
96	9.578	9.561	9.750	VV	585	40106	0.60%	0.152%
97	9.819	9.750	9.861	VV	384	20815	0.31%	0.079%
98	9.906	9.861	9.941	VV	405	16322	0.24%	0.062%
99	9.956	9.941	9.995	VV	331	7902	0.12%	0.030%
100	10.018	9.995	10.044	VV	399	6881	0.10%	0.026%
101	10.077	10.044	10.494	VV	11802	496333	7.37%	1.883%
102	10.540	10.494	10.631	VV	3141	74140	1.10%	0.281%
103	10.661	10.631	10.771	VV	542	26451	0.39%	0.100%
104	10.806	10.771	10.821	VV	262	6515	0.10%	0.025%
105	10.850	10.821	10.878	VV	391	8913	0.13%	0.034%
106	10.923	10.878	10.974	VV	590	18625	0.28%	0.071%
107	10.995	10.974	11.098	VV	370	14519	0.22%	0.055%
108	11.146	11.098	11.201	VV	220	6561	0.10%	0.025%
109	11.332	11.201	11.504	VV	647	40405	0.60%	0.153%
110	11.561	11.504	11.584	VV	583	10801	0.16%	0.041%
111	11.627	11.584	11.681	VV	583	14129	0.21%	0.054%
112	11.713	11.681	11.748	VV	376	7382	0.11%	0.028%
113	11.797	11.748	11.890	PV	251	10429	0.15%	0.040%
114	11.952	11.890	12.044	VV	631272	6737115	100.00%	25.566%
115	12.066	12.044	12.210	VV	1401	73278	1.09%	0.278%
116	12.234	12.210	12.268	VV	340	7555	0.11%	0.029%
117	12.298	12.268	12.331	VV	555	11012	0.16%	0.042%
118	12.401	12.331	12.471	VV	374	12090	0.18%	0.046%
119	12.508	12.471	12.528	PV	251	4006	0.06%	0.015%
120	12.568	12.528	12.643	VV	4878	135022	2.00%	0.512%
121	12.663	12.643	12.741	VV	1482	54073	0.80%	0.205%
122	12.758	12.741	12.804	VV	685	20686	0.31%	0.078%
123	12.822	12.804	12.844	VV	450	7774	0.12%	0.030%
124	12.873	12.844	12.901	VV	679	14057	0.21%	0.053%
125	12.939	12.901	12.981	VV	877	22068	0.33%	0.084%
126	13.019	12.981	13.133	VV	2132	64666	0.96%	0.245%
127	13.154	13.133	13.178	VV	231	3254	0.05%	0.012%
128	13.203	13.178	13.222	VV	198	2919	0.04%	0.011%
129	13.235	13.222	13.249	VV	117	1308	0.02%	0.005%
130	13.299	13.249	13.318	PV	242	4148	0.06%	0.016%
131	13.388	13.318	13.538	VV	352248	4336058	64.36%	16.454%
132	13.552	13.538	13.606	VV	1204	34076	0.51%	0.129%
133	13.631	13.606	13.738	VV	922	47265	0.70%	0.179%
134	13.751	13.738	13.771	VV	439	7713	0.11%	0.029%
135	13.785	13.771	13.801	VV	526	8088	0.12%	0.031%
136	13.827	13.801	13.881	VV	580	20056	0.30%	0.076%
137	13.903	13.881	13.928	VV	400	9037	0.13%	0.034%
138	13.991	13.928	14.034	VV	428	19633	0.29%	0.075%
139	14.095	14.034	14.121	VV	708	15741	0.23%	0.060%
140	14.141	14.121	14.231	VV	981	23378	0.35%	0.089%
141	14.268	14.231	14.328	VV	1854	29140	0.43%	0.111%

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142	14.369	14.328	14.428	PV	309	10447	0.16%	0.040%
143	14.450	14.428	14.484	VV	219	4405	0.07%	0.017%
144	14.578	14.484	14.614	PV	947	32518	0.48%	0.123%
145	14.652	14.614	14.681	VV	519	12830	0.19%	0.049%
146	14.705	14.681	14.741	VV	951	16068	0.24%	0.061%
147	14.772	14.741	14.791	VV	499	9068	0.13%	0.034%
148	14.826	14.791	14.881	VV	476	17451	0.26%	0.066%
149	14.991	14.881	15.018	VV	536	23385	0.35%	0.089%
150	15.031	15.018	15.063	VV	465	8299	0.12%	0.031%
151	15.105	15.063	15.174	VV	494	22497	0.33%	0.085%
152	15.247	15.174	15.278	VV	1459	43615	0.65%	0.166%
153	15.297	15.278	15.364	VV	1178	35818	0.53%	0.136%
154	15.387	15.364	15.421	VV	561	13308	0.20%	0.051%
155	15.448	15.421	15.474	VV	433	9872	0.15%	0.037%
156	15.498	15.474	15.532	VV	354	9061	0.13%	0.034%
157	15.640	15.532	15.742	VV	10320	306129	4.54%	1.162%
158	15.786	15.742	15.815	VV	2041	58925	0.87%	0.224%
159	15.841	15.815	15.884	VV	1615	28592	0.42%	0.108%
160	15.904	15.884	15.958	VV	531	11367	0.17%	0.043%
161	15.985	15.958	16.010	VV	229	3715	0.06%	0.014%
162	16.091	16.010	16.114	PV	188	7044	0.10%	0.027%
163	16.164	16.114	16.181	VV	365	7079	0.11%	0.027%
164	16.271	16.181	16.321	VV	1722	37742	0.56%	0.143%
165	16.341	16.321	16.391	VV	327	8428	0.13%	0.032%
166	16.409	16.391	16.431	VV	143	2770	0.04%	0.011%
167	16.469	16.431	16.531	PV	331	8420	0.12%	0.032%
168	16.663	16.531	16.731	VV	1456	53105	0.79%	0.202%
169	16.754	16.731	16.791	VV	2462	36048	0.54%	0.137%
170	16.837	16.791	16.872	VV	1001	30201	0.45%	0.115%
171	16.921	16.872	16.948	VV	460	18011	0.27%	0.068%
172	16.961	16.948	17.014	VV	415	8848	0.13%	0.034%
173	17.062	17.014	17.093	PV	300	8478	0.13%	0.032%
174	17.134	17.093	17.156	VV	455	9113	0.14%	0.035%
175	17.222	17.156	17.280	VV	3711	82574	1.23%	0.313%
176	17.305	17.280	17.368	VV	1043	23758	0.35%	0.090%
177	17.464	17.368	17.487	PV	440	14030	0.21%	0.053%
178	17.548	17.487	17.567	PV	422	10753	0.16%	0.041%
179	17.609	17.567	17.630	VV	1419	30852	0.46%	0.117%
180	17.673	17.630	17.731	VV	6181	113191	1.68%	0.430%
181	17.787	17.731	17.824	VV	892	25063	0.37%	0.095%
182	17.853	17.824	17.926	PV	598	19172	0.28%	0.073%
183	17.964	17.926	17.988	PV	432	9201	0.14%	0.035%
184	18.112	17.988	18.170	VV	6883	149557	2.22%	0.568%
185	18.205	18.170	18.229	VV	2184	34088	0.51%	0.129%
186	18.258	18.229	18.324	VV	1616	44596	0.66%	0.169%
187	18.344	18.324	18.371	VV	547	9192	0.14%	0.035%
188	18.486	18.371	18.512	PV	6697	175209	2.60%	0.665%
189	18.534	18.512	18.564	VV	9943	153135	2.27%	0.581%
190	18.626	18.564	18.681	VV	2756	95222	1.41%	0.361%
191	18.702	18.681	18.721	VV	415	7954	0.12%	0.030%
192	18.835	18.721	18.876	VV	778	35858	0.53%	0.136%
193	18.945	18.876	18.988	PV	9204	158668	2.36%	0.602%
194	19.049	18.988	19.074	VV	3460	57350	0.85%	0.218%

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195	19.100	19.074	19.167	VV	1743	45962	0.68%	0.174%
196	19.232	19.167	19.254	VV	833	29186	0.43%	0.111%
197	19.343	19.254	19.414	VV	10027	319342	4.74%	1.212%
198	19.445	19.414	19.468	VV	1725	40229	0.60%	0.153%
199	19.600	19.468	19.621	VV	1641	108882	1.62%	0.413%
200	19.641	19.621	19.681	VV	1479	45653	0.68%	0.173%
201	19.731	19.681	19.779	VV	9135	198536	2.95%	0.753%
202	19.850	19.779	19.890	VV	3366	166740	2.47%	0.633%
203	19.915	19.890	19.936	VV	3256	74956	1.11%	0.284%
204	20.011	19.936	20.050	VV	3831	227696	3.38%	0.864%
205	20.104	20.050	20.144	VV	10593	351522	5.22%	1.334%
206	20.158	20.144	20.196	VV	4624	140548	2.09%	0.533%
207	20.383	20.196	20.418	VV	6968	748845	11.12%	2.842%
208	20.472	20.418	20.503	VV	12119	429797	6.38%	1.631%
209	20.549	20.503	20.564	VV	8481	287810	4.27%	1.092%
210	20.685	20.564	20.724	VV	11798	975561	14.48%	3.702%
211	20.741	20.724	20.784	VV	10415	366384	5.44%	1.390%
212	20.832	20.784	20.864	VV	13790	542623	8.05%	2.059%
213	20.886	20.864	20.911	VV	10936	297599	4.42%	1.129%
214	20.946	20.911	20.970	VV	10883	372386	5.53%	1.413%
215	21.002	20.970	21.043	VV	10541	453720	6.73%	1.722%
216	21.070	21.043	21.108	VV	10426	388298	5.76%	1.473%
217	21.220	21.108	21.294	VV	11750	1070184	15.88%	4.061%
218	21.411	21.294	21.433	VV	8243	683665	10.15%	2.594%
219	21.456	21.433	21.491	VV	7898	268421	3.98%	1.019%
220	21.506	21.491	21.614	VV	7397	521527	7.74%	1.979%
221	21.660	21.614	21.711	VV	7623	391259	5.81%	1.485%
222	21.748	21.711	21.804	VV	5831	310690	4.61%	1.179%
223	21.840	21.804	21.864	VV	5236	179809	2.67%	0.682%
224	21.898	21.864	22.028	VV	5086	420092	6.24%	1.594%
225	22.068	22.028	22.084	VV	3463	113448	1.68%	0.431%
226	22.153	22.084	22.273	VV	3970	278112	4.13%	1.055%
227	22.294	22.273	22.314	VV	1200	21627	0.32%	0.082%
228	22.348	22.314	22.381	VV	496	14993	0.22%	0.057%
Sum of corrected areas:							26352132	

Aliphatic EPH 103025.M Fri Nov 14 04:31:22 2025

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	11/10/25
Project:	MCUA - New Brunswick	Date Received:	11/10/25
Client Sample ID:	S-2	SDG No.:	Q3604
Lab Sample ID:	Q3604-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.7
Sample Wt/Vol:	30.06 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	14.8		1	1.42	2.41	mg/kg	FG016890.D	11/12/25 19:53	PB170504
Aliphatic C9-C28	Aliphatic C9-C28	1.10	U	1	1.10	4.84	mg/kg	FG016890.D	11/12/25 19:53	PB170504
Total AliphaticEPH	Total AliphaticEPH	14.8			2.52	7.25	mg/kg			
Total EPH	Total EPH	14.8			2.52	7.25	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	11/10/25
Project:	MCUA - New Brunswick	Date Received:	11/10/25
Client Sample ID:	S-2	SDG No.:	Q3604
Lab Sample ID:	Q3604-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.7
Sample Wt/Vol:	30.06 g	Final Vol:	2000 uL
Prep Method :		Prep Date	11/12/25
		Test:	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	1.10	U	1	1.10	4.84	mg/kg	11/12/25	PB170504
Aliphatic C28-C40	Aliphatic C28-C40	14.8		1	1.42	2.41	mg/kg	11/12/25	PB170504
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	22.1			40 - 140	44%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	27.3			40 - 140	55%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3604-02	Acq On:	12 Nov 2025 19:53
Client Sample ID:	S-2	Operator:	YP\AJ
Data file:	FG016890.D	Misc:	
Instrument:	FID_G	ALS Vial:	42
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.261	6.902	266020	2.18	300	ug/ml
Aliphatic C12-C16	6.903	10.360	546581	4.449	200	ug/ml
Aliphatic C16-C21	10.361	13.749	366073	2.765	300	ug/ml
Aliphatic C21-C28	13.750	17.437	644077	4.632	400	ug/ml
Aliphatic C28-C40	17.438	22.463	20954866	184.146	600	ug/ml
Aliphatic EPH	3.261	22.463	22777617	198.174		ug/ml
ortho-Terphenyl (SURR)	12.041	12.041	4304570	27.26		ug/ml
1-chlorooctadecane (SURR)	13.487	13.487	2660630	22.09		ug/ml
Aliphatic C9-C28	3.261	17.437	1822751	14.026	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
Data File : FG016890.D
Signal(s) : FID1A.ch
Acq On : 12 Nov 2025 19:53
Operator : YP\AJ
Sample : Q3604-02
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
S-2

Integration File: sample.E
Quant Time: Nov 13 14:09:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 16:21:47 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.041	4304570	27.256 ug/ml
Spiked Amount 50.000		Recovery =	54.51%
12) S 1-chlorooctadecane (S...	13.487	2660630	22.092 ug/ml
Spiked Amount 50.000		Recovery =	44.18%

Target Compounds

(f)=RT Delta > 1/2 Window

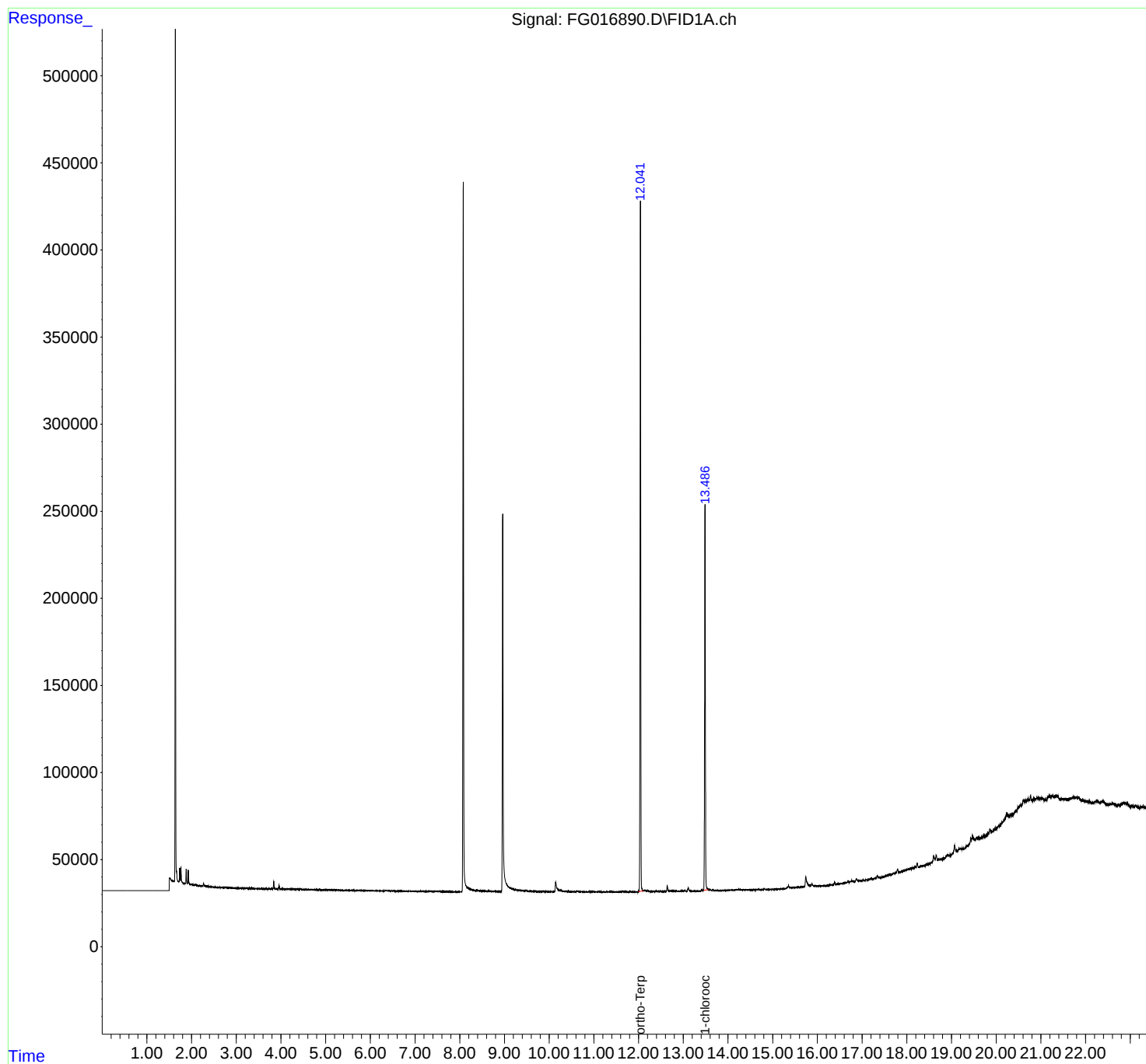
(m)=manual int.

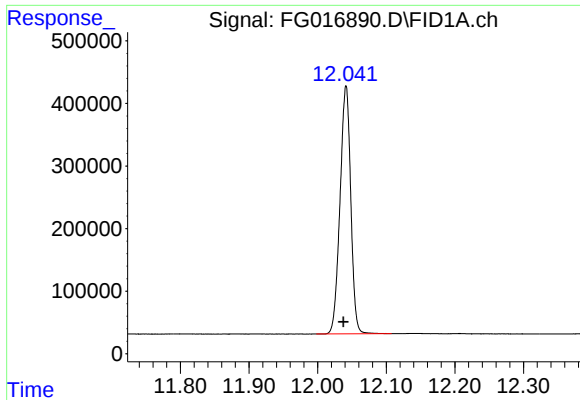
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
Data File : FG016890.D
Signal(s) : FID1A.ch
Acq On : 12 Nov 2025 19:53
Operator : YP\AJ
Sample : Q3604-02
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
S-2

Integration File: sample.E
Quant Time: Nov 13 14:09:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 16:21:47 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

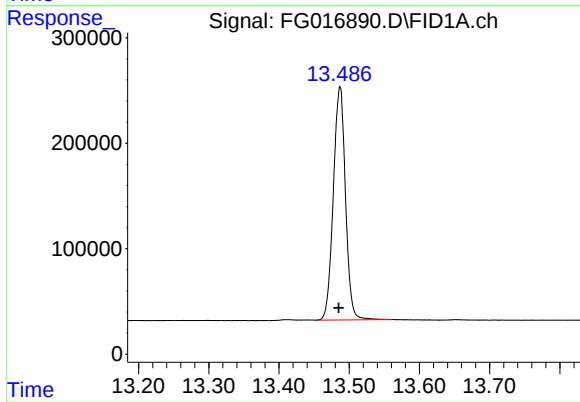




#9 ortho-Terphenyl (SURR)

R.T.: 12.041 min
Delta R.T.: 0.004 min
Response: 4304570
Conc: 27.26 ug/ml

Instrument :
FID_G
ClientSampleId :
S-2



#12 1-chlorooctadecane (SURR)

R.T.: 13.487 min
Delta R.T.: 0.002 min
Response: 2660630
Conc: 22.09 ug/ml

rteres
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
Data File : FG016890.D
Signal(s) : FID1A.ch
Acq On : 12 Nov 2025 19:53
Sample : Q3604-02
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH
102925.M

Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.357	3.305	3.425	BV	145	2753	0.06%	0.009%
2	3.436	3.425	3.451	VV	52	677	0.02%	0.002%
3	3.494	3.451	3.512	PV	125	2084	0.05%	0.007%
4	3.545	3.512	3.599	VV	179	3043	0.07%	0.010%
5	3.605	3.599	3.665	VV	69	821	0.02%	0.003%
6	3.684	3.665	3.696	PV	120	1043	0.02%	0.003%
7	3.715	3.696	3.740	VV	98	1704	0.04%	0.006%
8	3.744	3.740	3.765	VV	78	809	0.02%	0.003%
9	3.784	3.765	3.814	VV	409	5876	0.14%	0.020%

rteres								
10	3.838	3.814	3.928	VV	4434	52039	1.20%	0.174%
11	3.956	3.928	4.005	VV	2171	28927	0.67%	0.097%
12	4.018	4.005	4.031	VV	305	3535	0.08%	0.012%
13	4.041	4.031	4.068	VV	257	5223	0.12%	0.018%
14	4.073	4.068	4.124	VV	236	4225	0.10%	0.014%
15	4.135	4.124	4.152	VV	172	2040	0.05%	0.007%
16	4.160	4.152	4.202	VV	172	3729	0.09%	0.012%
17	4.211	4.202	4.246	VV	158	2656	0.06%	0.009%
18	4.254	4.246	4.268	VV	159	1196	0.03%	0.004%
19	4.278	4.268	4.288	VV	107	977	0.02%	0.003%
20	4.344	4.288	4.405	VV	256	10326	0.24%	0.035%
21	4.435	4.405	4.488	VV	305	7989	0.18%	0.027%
22	4.491	4.488	4.502	VV	177	925	0.02%	0.003%
23	4.505	4.502	4.539	VV	136	1951	0.05%	0.007%
24	4.549	4.539	4.554	VV	79	652	0.02%	0.002%
25	4.568	4.554	4.608	VV	195	3310	0.08%	0.011%
26	4.625	4.608	4.647	VV	194	2792	0.06%	0.009%
27	4.661	4.647	4.721	VV	139	4990	0.12%	0.017%
28	4.748	4.721	4.772	VV	229	3997	0.09%	0.013%
29	4.789	4.772	4.829	VV	369	5442	0.13%	0.018%
30	4.845	4.829	4.895	VV	129	2878	0.07%	0.010%
31	4.911	4.895	4.934	VV	96	1630	0.04%	0.005%
32	4.942	4.934	4.952	VV	105	985	0.02%	0.003%
33	4.961	4.952	5.012	VV	104	2892	0.07%	0.010%
34	5.017	5.012	5.085	VV	124	4048	0.09%	0.014%
35	5.095	5.085	5.111	VV	114	1555	0.04%	0.005%

rters

36	5.122	5.111	5.153	VV	110	1658	0.04%	0.006%
37	5.163	5.153	5.193	VV	114	1724	0.04%	0.006%
38	5.202	5.193	5.268	VV	127	3431	0.08%	0.011%
39	5.284	5.268	5.315	VV	199	2993	0.07%	0.010%
40	5.323	5.315	5.412	VV	115	3976	0.09%	0.013%
41	5.415	5.412	5.425	VV	84	463	0.01%	0.002%
42	5.439	5.425	5.485	PV	108	2342	0.05%	0.008%
43	5.491	5.485	5.505	VV	129	826	0.02%	0.003%
44	5.513	5.505	5.528	VV	95	967	0.02%	0.003%
45	5.532	5.528	5.542	VV	102	517	0.01%	0.002%
46	5.582	5.542	5.639	PV	218	6174	0.14%	0.021%
47	5.648	5.639	5.708	VV	74	2228	0.05%	0.007%
48	5.724	5.708	5.738	VV	115	1194	0.03%	0.004%
49	5.750	5.738	5.798	VV	90	2184	0.05%	0.007%
50	5.805	5.798	5.824	VV	49	958	0.02%	0.003%
51	5.842	5.824	5.870	VV	162	2311	0.05%	0.008%
52	5.882	5.870	5.898	VV	117	1213	0.03%	0.004%
53	5.912	5.898	5.933	VV	122	1755	0.04%	0.006%
54	5.941	5.933	5.949	VV	109	774	0.02%	0.003%
55	5.959	5.949	6.001	VV	108	1913	0.04%	0.006%
56	6.025	6.001	6.112	VV	130	4649	0.11%	0.016%
57	6.141	6.112	6.284	VV	127	6080	0.14%	0.020%
58	6.298	6.284	6.310	PV	65	555	0.01%	0.002%
59	6.353	6.310	6.465	VV	348	13229	0.31%	0.044%
60	6.472	6.465	6.494	VV	122	1739	0.04%	0.006%

					rteres			
61	6.516	6.494	6.573	VV	277	5884	0.14%	0.020%
62	6.587	6.573	6.613	VV	87	1500	0.03%	0.005%
63	6.659	6.613	6.708	VV	143	5569	0.13%	0.019%
64	6.712	6.708	6.772	VV	87	2050	0.05%	0.007%
65	6.782	6.772	6.835	VV	105	2869	0.07%	0.010%
66	6.838	6.835	6.908	VV	95	2576	0.06%	0.009%
67	6.925	6.908	6.984	VV	109	3469	0.08%	0.012%
68	7.039	6.984	7.050	VV	126	3025	0.07%	0.010%
69	7.087	7.050	7.135	VV	127	3517	0.08%	0.012%
70	7.142	7.135	7.195	VV	84	1519	0.04%	0.005%
71	7.262	7.195	7.294	PV	149	4799	0.11%	0.016%
72	7.323	7.294	7.334	VV	129	2102	0.05%	0.007%
73	7.353	7.334	7.409	VV	139	4577	0.11%	0.015%
74	7.485	7.409	7.522	VV	312	9854	0.23%	0.033%
75	7.529	7.522	7.552	VV	208	2649	0.06%	0.009%
76	7.561	7.552	7.572	VV	124	876	0.02%	0.003%
77	7.589	7.572	7.604	VV	99	1014	0.02%	0.003%
78	7.643	7.604	7.662	VV	101	1958	0.05%	0.007%
79	7.710	7.662	7.725	VV	122	2694	0.06%	0.009%
80	7.756	7.725	7.811	VV	158	3427	0.08%	0.011%
81	7.818	7.811	7.828	VV	92	489	0.01%	0.002%
82	7.840	7.828	7.863	VV	103	1098	0.03%	0.004%
83	7.875	7.863	7.884	PV	87	795	0.02%	0.003%
84	7.893	7.884	7.945	VV	107	2154	0.05%	0.007%
85	7.954	7.945	7.983	VV	40	671	0.02%	0.002%
86	7.997	7.983	8.033	PV	71	1511	0.03%	0.005%

rteres								
87	8.403	8.394	8.592	VV	760	63156	1.46%	0.212%
88	8.645	8.592	8.733	VV	740	32286	0.74%	0.108%
89	8.762	8.733	8.772	VV	347	7143	0.16%	0.024%
90	8.778	8.772	8.926	VV	361	19079	0.44%	0.064%
91	9.334	9.325	9.362	VV	897	18628	0.43%	0.062%
92	9.377	9.362	9.455	VV	884	41315	0.95%	0.138%
93	9.477	9.455	9.546	VV	922	33676	0.78%	0.113%
94	9.555	9.546	9.798	VV	462	47431	1.09%	0.159%
95	9.808	9.798	9.832	VV	236	3745	0.09%	0.013%
96	9.866	9.832	9.921	VV	283	11196	0.26%	0.038%
97	9.935	9.921	9.975	VV	244	6025	0.14%	0.020%
98	9.987	9.975	10.002	VV	238	2825	0.07%	0.009%
99	10.039	10.002	10.075	VV	178	4603	0.11%	0.015%
100	10.102	10.075	10.115	VV	197	2633	0.06%	0.009%
101	10.145	10.115	10.246	VV	5559	154674	3.57%	0.518%
102	10.264	10.246	10.342	VV	896	31706	0.73%	0.106%
103	10.349	10.342	10.425	VV	370	14262	0.33%	0.048%
104	10.435	10.425	10.488	VV	251	6851	0.16%	0.023%
105	10.498	10.488	10.535	VV	171	3251	0.07%	0.011%
106	10.548	10.535	10.576	VV	146	2608	0.06%	0.009%
107	10.615	10.576	10.655	VV	603	12509	0.29%	0.042%
108	10.657	10.655	10.732	VV	256	5538	0.13%	0.019%
109	10.771	10.732	10.822	VV	146	4206	0.10%	0.014%
110	10.829	10.822	10.865	VV	119	1720	0.04%	0.006%
111	10.942	10.865	10.953	VV	148	5192	0.12%	0.017%
112	10.970	10.953	10.981	VV	109	1413	0.03%	0.005%

					rteres			
113	11.010	10.981	11.052	VV	340	7010	0.16%	0.023%
114	11.077	11.052	11.098	VV	193	3282	0.08%	0.011%
115	11.115	11.098	11.195	VV	179	4397	0.10%	0.015%
116	11.234	11.195	11.258	PV	135	2474	0.06%	0.008%
117	11.265	11.258	11.271	VV	44	491	0.01%	0.002%
118	11.294	11.271	11.345	VV	170	5025	0.12%	0.017%
119	11.355	11.345	11.365	VV	146	1469	0.03%	0.005%
120	11.384	11.365	11.423	VV	170	4284	0.10%	0.014%
121	11.434	11.423	11.496	VV	72	1985	0.05%	0.007%
122	11.525	11.496	11.561	PV	94	1873	0.04%	0.006%
123	11.591	11.561	11.622	PV	84	951	0.02%	0.003%
124	11.645	11.622	11.673	VV	214	3587	0.08%	0.012%
125	11.713	11.673	11.766	VV	439	7738	0.18%	0.026%
126	11.801	11.766	11.857	VV	246	5785	0.13%	0.019%
127	11.881	11.857	11.898	PV	140	1603	0.04%	0.005%
128	11.909	11.898	11.938	VV	127	1682	0.04%	0.006%
129	11.960	11.938	11.966	VV	67	544	0.01%	0.002%
130	12.041	11.966	12.125	VV	398027	4334518	100.00%	14.526%
131	12.142	12.125	12.187	VV	960	25062	0.58%	0.084%
132	12.206	12.187	12.262	VV	724	16783	0.39%	0.056%
133	12.268	12.262	12.288	VV	226	2996	0.07%	0.010%
134	12.323	12.318	12.336	VV	143	1107	0.03%	0.004%
135	12.390	12.336	12.428	VV	339	7930	0.18%	0.027%
136	12.488	12.428	12.538	VV	233	6127	0.14%	0.021%
137	12.554	12.538	12.592	VV	76	2046	0.05%	0.007%
138	12.601	12.592	12.614	VV	153	1304	0.03%	0.004%

					rteres				
139	12.642	12.614	12.710	VV	3451	55911	1.29%	0.187%	
140	12.722	12.710	12.736	VV	368	5078	0.12%	0.017%	
141	12.755	12.736	12.792	VV	380	10403	0.24%	0.035%	
142	12.844	12.792	12.905	VV	316	13636	0.31%	0.046%	
143	12.915	12.905	12.938	VV	149	2305	0.05%	0.008%	
144	12.968	12.938	13.002	VV	427	8757	0.20%	0.029%	
145	13.034	13.002	13.075	VV	520	11186	0.26%	0.037%	
146	13.112	13.075	13.227	VV	1883	45984	1.06%	0.154%	
147	13.264	13.227	13.280	VV	177	3298	0.08%	0.011%	
148	13.299	13.280	13.375	VV	182	3829	0.09%	0.013%	
149	13.412	13.375	13.432	PV	887	13654	0.32%	0.046%	
150	13.439	13.432	13.450	VV	582	5848	0.13%	0.020%	
151	13.487	13.450	13.628	VV	224316	2727732	62.93%	9.141%	
152	13.653	13.628	13.744	VV	714	25361	0.59%	0.085%	
153	13.762	13.744	13.825	VV	238	8884	0.20%	0.030%	
154	13.894	13.825	13.918	VV	258	11082	0.26%	0.037%	
155	14.032	13.918	14.078	VV	246	18982	0.44%	0.064%	
156	14.101	14.078	14.141	VV	270	8092	0.19%	0.027%	
157	14.196	14.141	14.219	VV	523	14279	0.33%	0.048%	
158	14.244	14.219	14.388	VV	613	26726	0.62%	0.090%	
159	14.394	14.388	14.418	VV	187	2241	0.05%	0.008%	
160	14.468	14.418	14.563	VV	193	7828	0.18%	0.026%	
161	14.642	14.563	14.661	PV	331	6572	0.15%	0.022%	
162	14.684	14.661	14.779	VV	463	10960	0.25%	0.037%	
163	14.810	14.779	14.858	PV	680	9841	0.23%	0.033%	
164	14.912	14.858	14.931	VV	173	4634	0.11%	0.016%	

					rteres				
165	14.952	14.931	14.972	VV	113	1492	0.03%	0.005%	
166	14.997	14.972	15.024	PV	92	1409	0.03%	0.005%	
167	15.354	15.024	15.386	PV	1347	26838	0.62%	0.090%	
168	15.402	15.386	15.432	VV	382	7949	0.18%	0.027%	
169	15.550	15.432	15.565	VV	243	16960	0.39%	0.057%	
170	15.742	15.565	15.842	VV	5922	191995	4.43%	0.643%	
171	15.878	15.842	15.922	VV	1658	40187	0.93%	0.135%	
172	15.952	15.922	15.985	VV	510	11759	0.27%	0.039%	
173	16.038	15.985	16.075	VV	138	6512	0.15%	0.022%	
174	16.383	16.075	16.415	PV	1248	16574	0.38%	0.056%	
175	16.682	16.415	16.708	PV	808	34551	0.80%	0.116%	
176	16.767	16.708	16.835	VV	854	36437	0.84%	0.122%	
177	16.872	16.835	16.932	VV	1684	44240	1.02%	0.148%	
178	17.024	16.932	17.062	VV	368	19123	0.44%	0.064%	
179	17.092	17.062	17.112	VV	198	4025	0.09%	0.013%	
180	17.169	17.112	17.185	PV	513	8148	0.19%	0.027%	
181	17.211	17.185	17.242	VV	411	8211	0.19%	0.028%	
182	17.341	17.242	17.365	VV	1476	30762	0.71%	0.103%	
183	17.384	17.365	17.422	VV	317	6784	0.16%	0.023%	
184	17.794	17.422	17.848	PV	2624	107008	2.47%	0.359%	
185	18.086	17.848	18.105	VV	1047	92704	2.14%	0.311%	
186	18.193	18.105	18.212	VV	984	47847	1.10%	0.160%	
187	18.233	18.212	18.286	VV	2793	54763	1.26%	0.184%	
188	18.600	18.286	18.631	PV	4043	155921	3.60%	0.523%	
189	18.659	18.631	18.698	VV	3910	92529	2.13%	0.310%	
190	18.774	18.698	18.791	VV	749	41844	0.97%	0.140%	

rteres

191	19.069	18.791	19.137	VV	5845	379756	8.76%	1.273%
192	19.242	19.137	19.258	VV	3019	208193	4.80%	0.698%
193	19.472	19.258	19.532	VV	8179	745917	17.21%	2.500%
194	19.611	19.532	19.652	VV	6391	409076	9.44%	1.371%
195	19.723	19.652	19.750	VV	6166	329537	7.60%	1.104%
196	19.860	19.750	19.907	VV	8163	620836	14.32%	2.081%
197	20.236	19.907	20.292	VV	14974	2271992	52.42%	7.614%
198	20.331	20.292	20.372	VV	12933	607946	14.03%	2.037%
199	20.614	20.372	20.645	VV	18683	2553574	58.91%	8.558%
200	20.713	20.645	20.745	VV	18688	1085012	25.03%	3.636%
201	20.768	20.745	20.808	VV	19602	690690	15.93%	2.315%
202	20.832	20.808	20.862	VV	18155	554639	12.80%	1.859%
203	20.911	20.862	20.962	VV	17714	1036348	23.91%	3.473%
204	20.964	20.962	21.018	VV	17238	564286	13.02%	1.891%
205	21.037	21.018	21.072	VV	16464	509067	11.74%	1.706%
206	21.089	21.072	21.108	VV	15091	322152	7.43%	1.080%
207	21.269	21.108	21.298	VV	15794	1777886	41.02%	5.958%
208	21.320	21.298	21.340	VV	15261	380879	8.79%	1.276%
209	21.357	21.340	21.448	VV	15020	872630	20.13%	2.924%
210	21.486	21.448	21.501	VV	12101	379242	8.75%	1.271%
211	21.517	21.501	21.538	VV	12257	260467	6.01%	0.873%
212	21.576	21.538	21.602	VV	11400	421310	9.72%	1.412%
213	21.718	21.602	21.748	VV	11131	953532	22.00%	3.195%
214	21.801	21.748	21.825	VV	10645	473130	10.92%	1.586%
215	21.839	21.825	21.968	VV	10019	703217	16.22%	2.357%

					rters				
216	21.984	21.968	22.015	VV	6915	182627	4.21%	0.612%	
217	22.029	22.015	22.062	VV	6650	165161	3.81%	0.553%	
218	22.086	22.062	22.148	VV	5660	255633	5.90%	0.857%	
219	22.233	22.148	22.322	VV	4762	399389	9.21%	1.338%	
220	22.371	22.322	22.502	VBA	3280	248126	5.72%	0.832%	

Sum of corrected areas: 29839870

Aliphatic EPH 102925.M Thu Nov 13 14:37:38 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FE103025AL

AreaCount

Parameter Range	FE056575.D	FE056576.D	FE056577.D	FE056578.D	FE056579.D	
Aliphatic C9-C12	47378340.000	25372826.000	10134874.000	5323968.000	2735296.000	
Aliphatic C12-C16	32958436.000	17867364.000	7039199.000	3707774.000	1889371.000	
Aliphatic C16-C21	50634896.000	27807189.000	10962966.000	5844076.000	3012669.000	
Aliphatic C21-C28	65391355.000	36849784.000	14322959.000	8150425.000	4666116.000	
Aliphatic C28-C40	76863576.000	43549713.000	17723612.000	10141838.000	6197225.000	
Aliphatic EPH	273226603.000	151446876.000	60183610.000	33168081.000	18500677.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	171162.641333	5.459				
Aliphatic C12-C16	178754.319	5.236				
Aliphatic C16-C21	186505.4959998	6.59				
Aliphatic C21-C28	192766.144	13.927				
Aliphatic C28-C40	159314.647333	18.927				
Aliphatic EPH	175414.750555	11.628				

Concentration

Parameter Range	FE056575.D	FE056576.D	FE056577.D	FE056578.D	FE056579.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FE056575.D	FE056576.D	FE056577.D	FE056578.D	FE056579.D	
Aliphatic C9-C12	157927.800000	169152.173333	168914.566666	177465.600000	182353.066666	
Aliphatic C12-C16	164792.180000	178673.640000	175979.975000	185388.700000	188937.100000	
Aliphatic C16-C21	168782.986666	185381.260000	182716.100000	194802.533333	200844.600000	

Initial Calibration Report for SequenceID : FE103025AL

Aliphatic C21-C28	163478.387500	184248.920000	179036.987500	203760.625000	233305.800000	
Aliphatic C28-C40	128105.960000	145165.710000	147696.766666	169030.633333	206574.166666	
Aliphatic EPH	151792.557222	168274.306666	167176.694444	184267.116666	205563.077777	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056575.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 10:20
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 30 12:03:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 11:59:52 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.992	19059851	96.235 ug/ml
Spiked Amount 50.000		Recovery =	192.47%
12) S 1-chlorooctadecane (S...	13.427	14749289	96.361 ug/ml
Spiked Amount 50.000		Recovery =	192.72%
Target Compounds			
1) T n-Nonane (C9)	3.337	15510371	96.767 ug/ml
2) T n-Decane (C10)	4.591	15797359	96.498 ug/ml
3) T A~Naphthalene (C11.7)	6.308	17418486	97.460 ug/ml
4) T n-Dodecane (C12)	6.765	16070610	96.653 ug/ml
5) T A~2-methylnaphthalene...	7.409	16955970	98.036 ug/ml
6) T n-Tetradecane (C14)	8.601	16108586	96.787 ug/ml
7) T n-Hexadecane (C16)	10.215	16849850	96.650 ug/ml
8) T n-Octadecane (C18)	11.666	17249418	96.237 ug/ml
10) T n-Eicosane (C20)	12.979	16787284	95.930 ug/ml
11) T n-Heneicosane (C21)	13.593	16598194	95.935 ug/ml
13) T n-Docosane (C22)	14.181	16594646	95.890 ug/ml
14) T n-Tetracosane (C24)	15.288	16611261	95.631 ug/ml
15) T n-Hexacosane (C26)	16.313	16325668	95.495 ug/ml
16) T n-Octacosane (C28)	17.266	15859780	94.791 ug/ml
17) T n-Tricontane (C30)	18.155	15787066	93.066 ug/ml
18) T n-Dotriacontane (C32)	18.990	14882432	91.297 ug/ml
19) T n-Tetratriacontane (C34)	19.776	13398021	91.103 ug/ml
20) T n-Hexatriacontane (C36)	20.516	11781393	92.518 ug/ml
21) T n-Octatriacontane (C38)	21.272	10906555	95.307 ug/ml
22) T n-Tetracontane (C40)	22.223	10108109	95.430 ug/ml

(f)=RT Delta > 1/2 Window

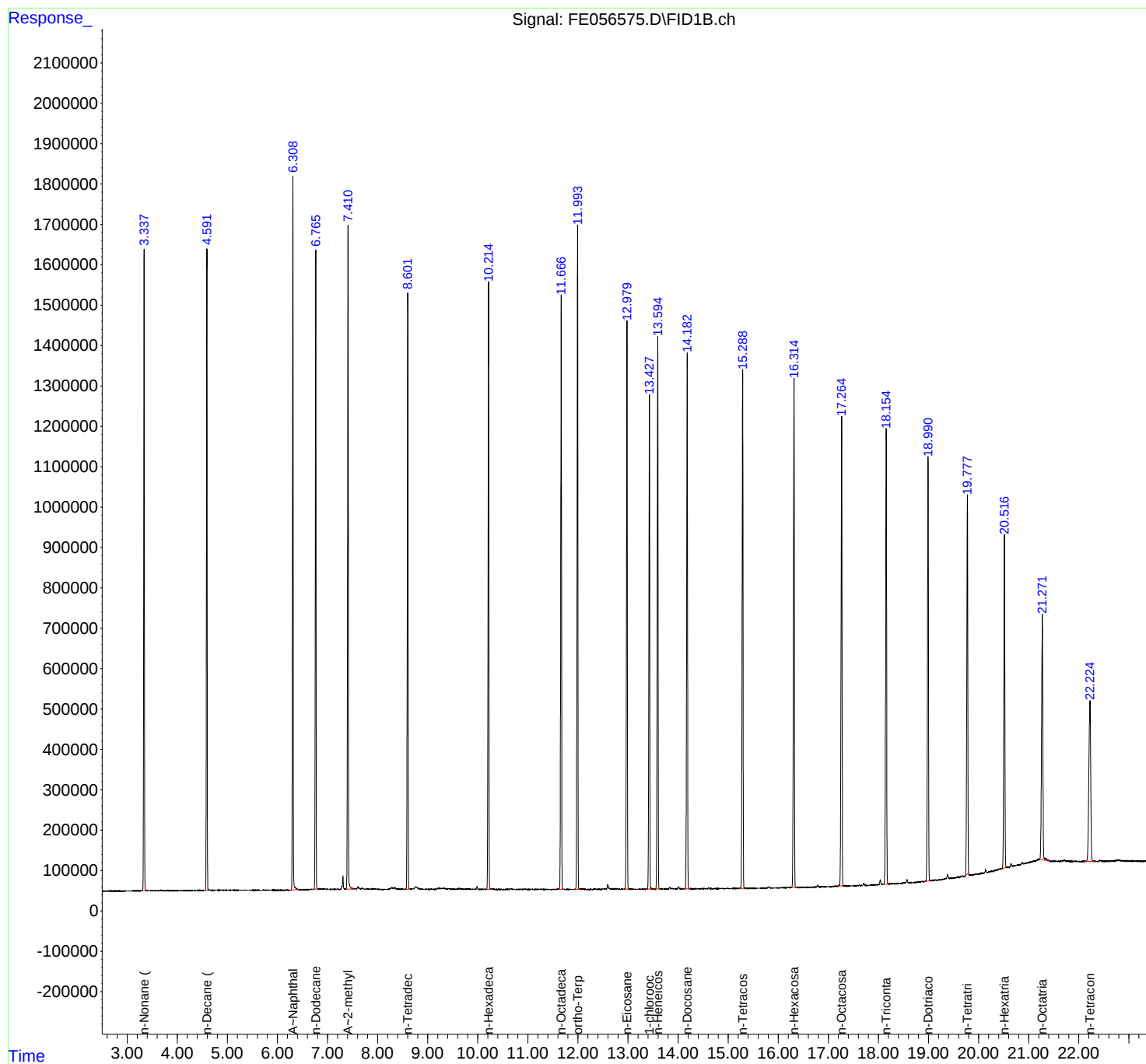
(m)=manual int.

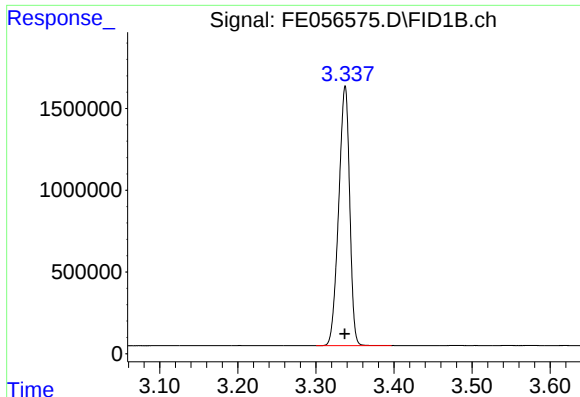
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056575.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 10:20
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 30 12:03:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 11:59:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

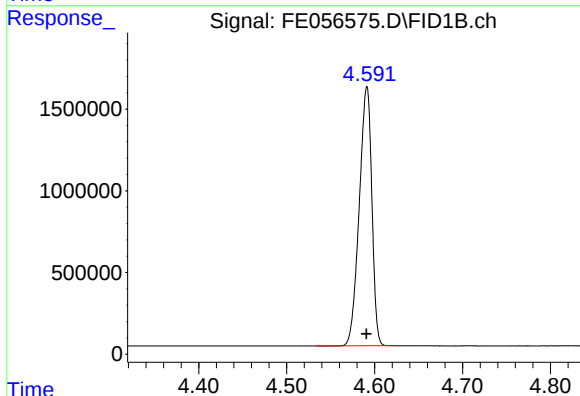




#1 n-Nonane (C9)

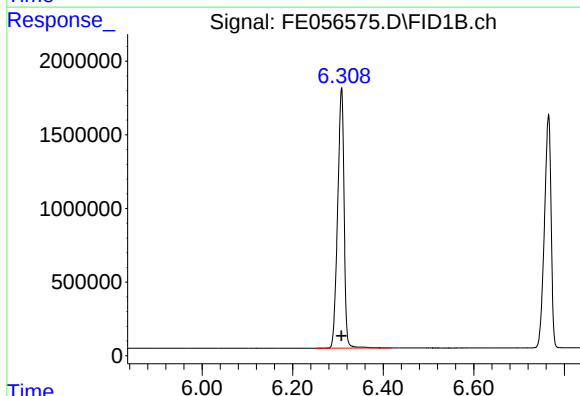
R.T.: 3.337 min
Delta R.T.: 0.000 min
Response: 15510371
Conc: 96.77 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



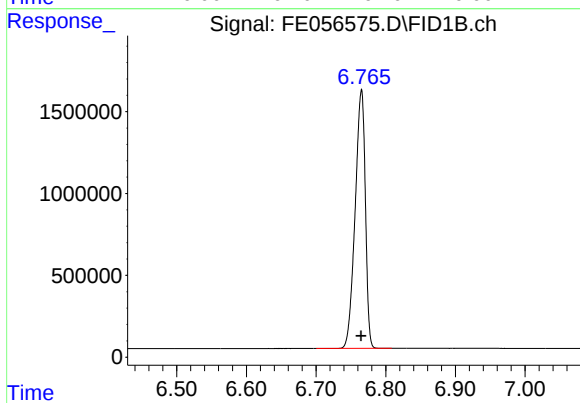
#2 n-Decane (C10)

R.T.: 4.591 min
Delta R.T.: 0.000 min
Response: 15797359
Conc: 96.50 ug/ml



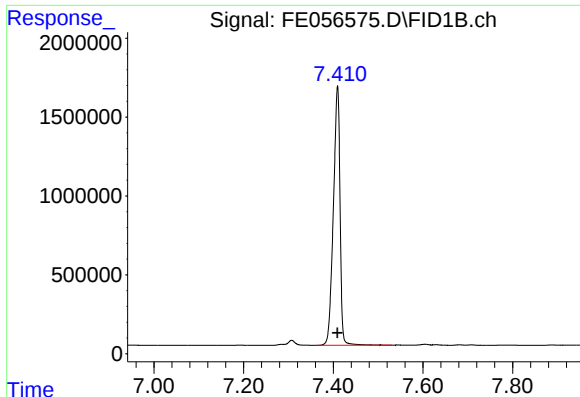
#3 A~Naphthalene (C11.7)

R.T.: 6.308 min
Delta R.T.: 0.000 min
Response: 17418486
Conc: 97.46 ug/ml



#4 n-Dodecane (C12)

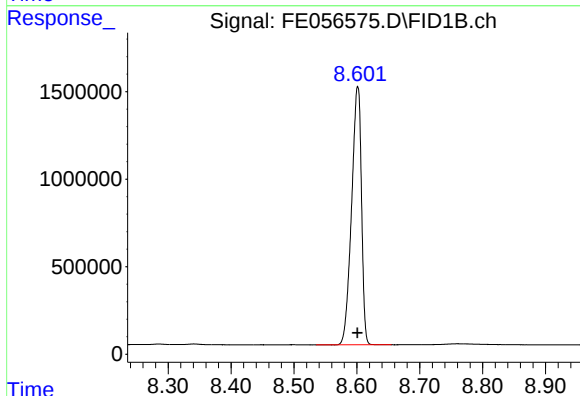
R.T.: 6.765 min
Delta R.T.: 0.000 min
Response: 16070610
Conc: 96.65 ug/ml



#5 A~2-methylnaphthalene (C12.89)

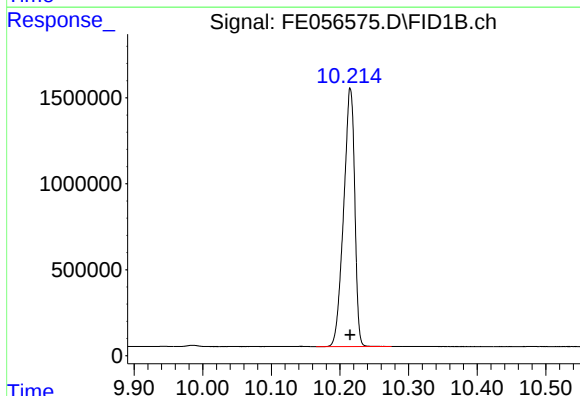
R.T.: 7.409 min
Delta R.T.: 0.000 min
Response: 16955970
Conc: 98.04 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



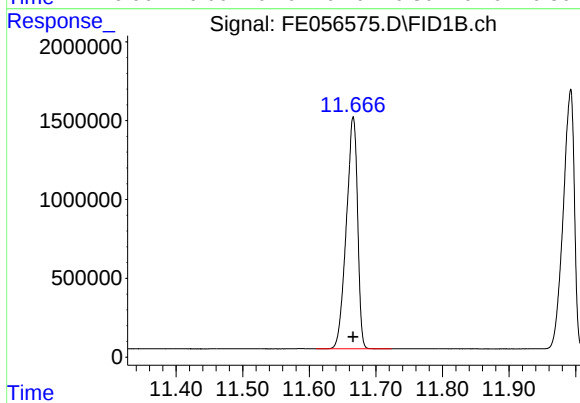
#6 n-Tetradecane (C14)

R.T.: 8.601 min
Delta R.T.: 0.000 min
Response: 16108586
Conc: 96.79 ug/ml



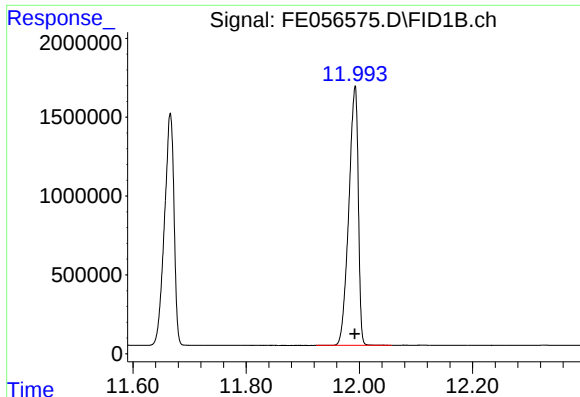
#7 n-Hexadecane (C16)

R.T.: 10.215 min
Delta R.T.: 0.000 min
Response: 16849850
Conc: 96.65 ug/ml



#8 n-Octadecane (C18)

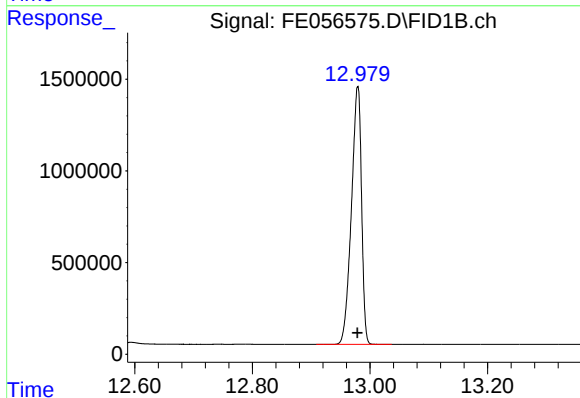
R.T.: 11.666 min
Delta R.T.: 0.000 min
Response: 17249418
Conc: 96.24 ug/ml



#9 ortho-Terphenyl (SURR)

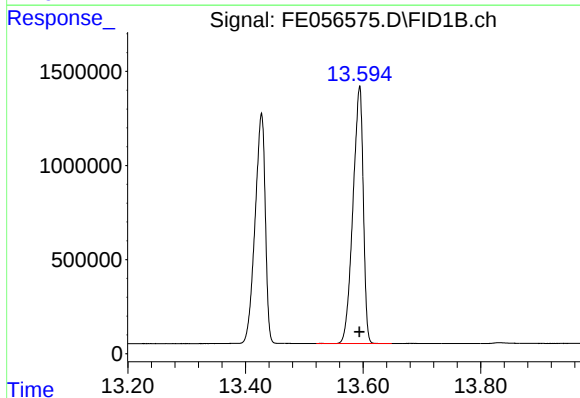
R.T.: 11.992 min
Delta R.T.: 0.000 min
Response: 19059851
Conc: 96.24 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



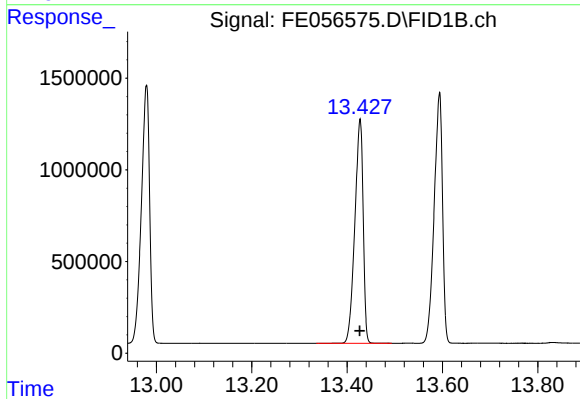
#10 n-Eicosane (C20)

R.T.: 12.979 min
Delta R.T.: 0.000 min
Response: 16787284
Conc: 95.93 ug/ml



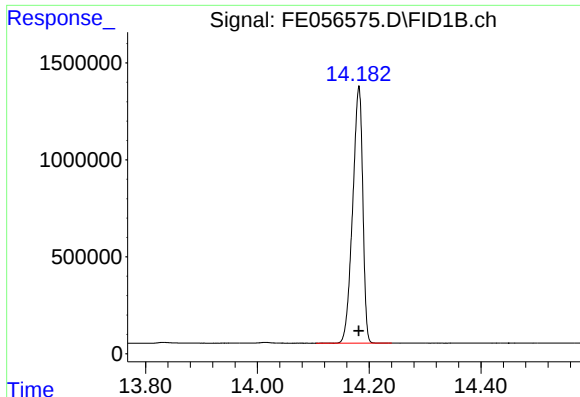
#11 n-Heneicosane (C21)

R.T.: 13.593 min
Delta R.T.: 0.000 min
Response: 16598194
Conc: 95.93 ug/ml



#12 1-chlorooctadecane (SURR)

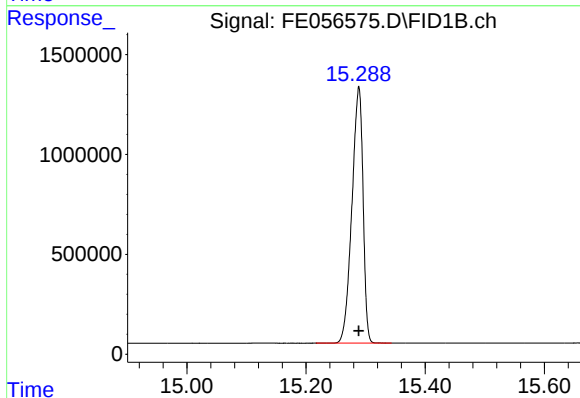
R.T.: 13.427 min
Delta R.T.: 0.000 min
Response: 14749289
Conc: 96.36 ug/ml



#13 n-Docosane (C22)

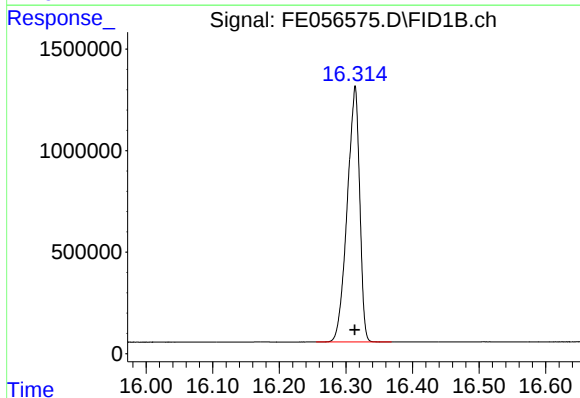
R.T.: 14.181 min
Delta R.T.: 0.000 min
Response: 16594646
Conc: 95.89 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



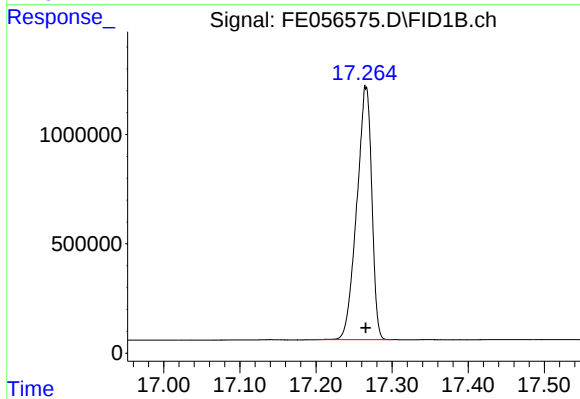
#14 n-Tetracosane (C24)

R.T.: 15.288 min
Delta R.T.: 0.000 min
Response: 16611261
Conc: 95.63 ug/ml



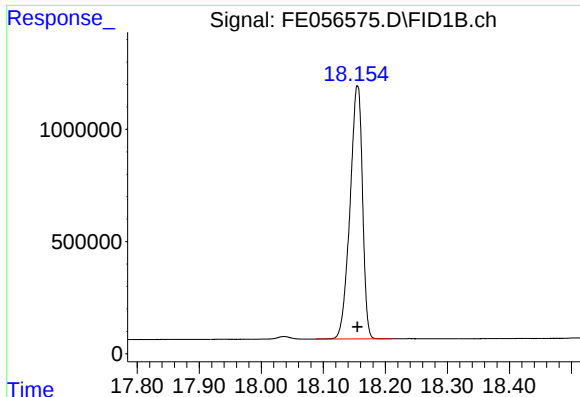
#15 n-Hexacosane (C26)

R.T.: 16.313 min
Delta R.T.: 0.000 min
Response: 16325668
Conc: 95.50 ug/ml



#16 n-Octacosane (C28)

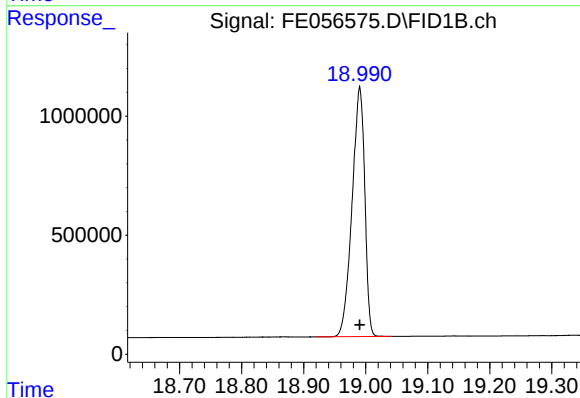
R.T.: 17.266 min
Delta R.T.: 0.000 min
Response: 15859780
Conc: 94.79 ug/ml



#17 n-Tricontane (C30)

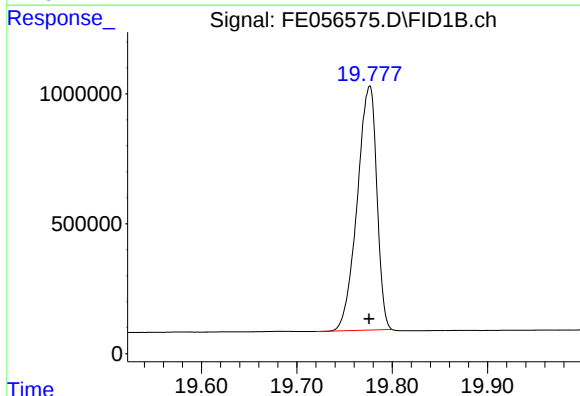
R.T.: 18.155 min
Delta R.T.: 0.000 min
Response: 15787066
Conc: 93.07 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



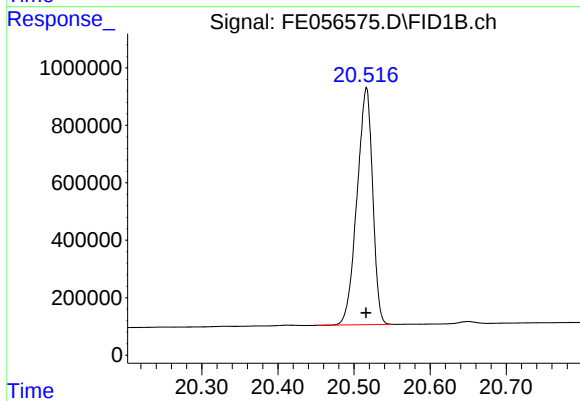
#18 n-Dotriacontane (C32)

R.T.: 18.990 min
Delta R.T.: 0.000 min
Response: 14882432
Conc: 91.30 ug/ml



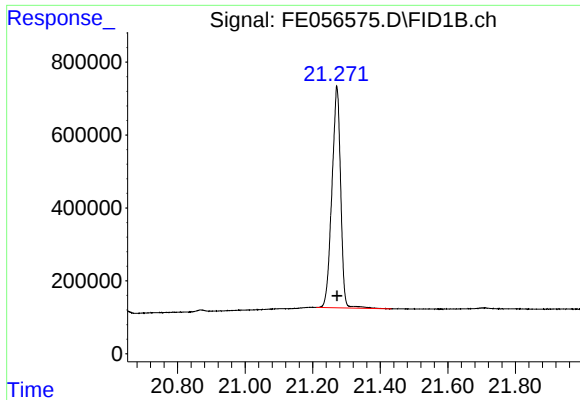
#19 n-Tetratriacontane (C34)

R.T.: 19.776 min
Delta R.T.: 0.000 min
Response: 13398021
Conc: 91.10 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.516 min
Delta R.T.: 0.000 min
Response: 11781393
Conc: 92.52 ug/ml



#21 n-Octatriacontane (C38)

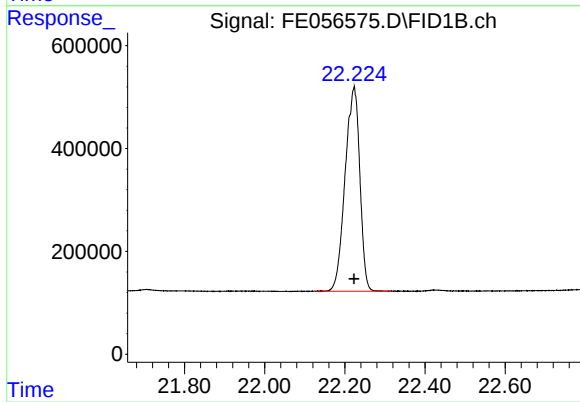
R.T.: 21.272 min
Delta R.T.: 0.000 min
Response: 10906555
Conc: 95.31 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.223 min
Delta R.T.: 0.000 min
Response: 10108109
Conc: 95.43 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056575.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 10:20
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.337	3.300	3.397	BB	1587559	15510371	81.38%	4.543%
2	4.591	4.534	4.619	BBA	1581962	15797359	82.88%	4.627%
3	6.308	6.252	6.419	BB	1757870	17418486	91.39%	5.102%
4	6.765	6.700	6.809	BB	1584765	16070610	84.32%	4.707%
5	7.409	7.362	7.530	PV	1636096	16955970	88.96%	4.966%
6	8.601	8.535	8.655	BB	1480313	16108586	84.52%	4.718%
7	10.215	10.165	10.275	BB	1502827	16849850	88.40%	4.935%
8	11.666	11.610	11.724	BB	1469692	17249418	90.50%	5.052%
9	11.992	11.924	12.057	BB	1639468	19059851	100.00%	5.583%
10	12.979	12.909	13.037	BB	1409836	16787284	88.08%	4.917%
11	13.427	13.335	13.494	BB	1223044	14749289	77.38%	4.320%
12	13.593	13.520	13.649	BB	1361908	16598194	87.08%	4.862%
13	14.181	14.105	14.240	BB	1330972	16594646	87.07%	4.861%
14	15.288	15.217	15.344	BB	1288586	16611261	87.15%	4.865%
15	16.313	16.255	16.369	BB	1263736	16325668	85.65%	4.782%
16	17.266	17.200	17.299	BBA	1155432	15859780	83.21%	4.645%
17	18.155	18.089	18.210	BB	1127298	15787066	82.83%	4.624%
18	18.990	18.920	19.042	BB	1047781	14882432	78.08%	4.359%
19	19.776	19.720	19.799	BBA	935373	13398021	70.29%	3.924%
20	20.516	20.450	20.549	BBA	822409	11781393	61.81%	3.451%
21	21.272	21.210	21.434	BB	606103	10906555	57.22%	3.195%
22	22.223	22.129	22.317	BB	398455	10108109	53.03%	2.961%
Sum of corrected areas:						341410195		

Aliphatic EPH 103025.M Thu Oct 30 12:55:02 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056576.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 10:50
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 30 12:05:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 11:59:52 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.985	10390390	51.615 ug/ml
Spiked Amount 50.000		Recovery =	103.23%
12) S 1-chlorooctadecane (S...	13.422	8069798	51.782 ug/ml
Spiked Amount 50.000		Recovery =	103.56%
Target Compounds			
1) T n-Nonane (C9)	3.334	8283699	51.108 ug/ml
2) T n-Decane (C10)	4.587	8458707	51.101 ug/ml
3) T A~Naphthalene (C11.7)	6.303	9255687	51.178 ug/ml
4) T n-Dodecane (C12)	6.761	8630420	51.255 ug/ml
5) T A~2-methylnaphthalene...	7.404	9018328	51.408 ug/ml
6) T n-Tetradecane (C14)	8.597	8702299	51.502 ug/ml
7) T n-Hexadecane (C16)	10.210	9165065	51.685 ug/ml
8) T n-Octadecane (C18)	11.660	9466424	51.842 ug/ml
10) T n-Eicosane (C20)	12.974	9224749	51.777 ug/ml
11) T n-Heneicosane (C21)	13.588	9116016	51.761 ug/ml
13) T n-Docosane (C22)	14.176	9188407	52.021 ug/ml
14) T n-Tetracosane (C24)	15.283	9376021	52.583 ug/ml
15) T n-Hexacosane (C26)	16.307	9244371	52.644 ug/ml
16) T n-Octacosane (C28)	17.261	9040985	52.620 ug/ml
17) T n-Tricontane (C30)	18.150	9116641	52.435 ug/ml
18) T n-Dotriacontane (C32)	18.985	8697901	52.190 ug/ml
19) T n-Tetratriacontane (C34)	19.770	7726773	51.665 ug/ml
20) T n-Hexatriacontane (C36)	20.510	6593672	51.172 ug/ml
21) T n-Octatriacontane (C38)	21.266	5889118	50.965 ug/ml
22) T n-Tetracontane (C40)	22.214	5525608	51.424 ug/ml

(f)=RT Delta > 1/2 Window

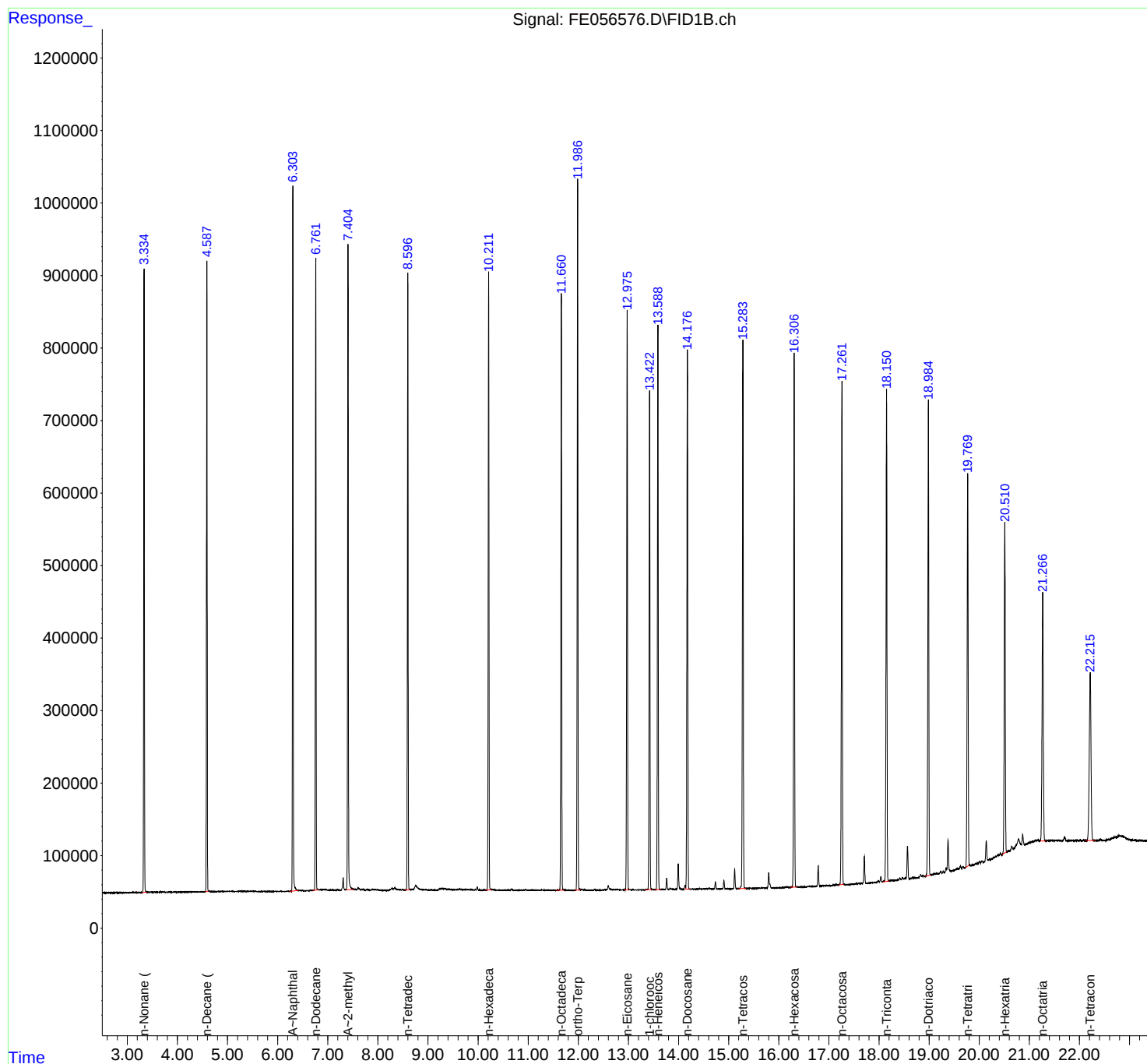
(m)=manual int.

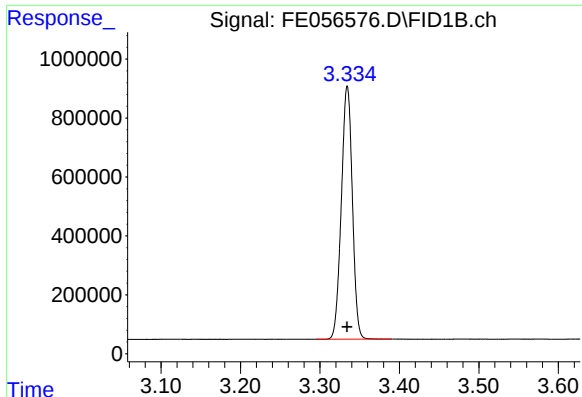
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056576.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 10:50
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 30 12:05:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 11:59:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

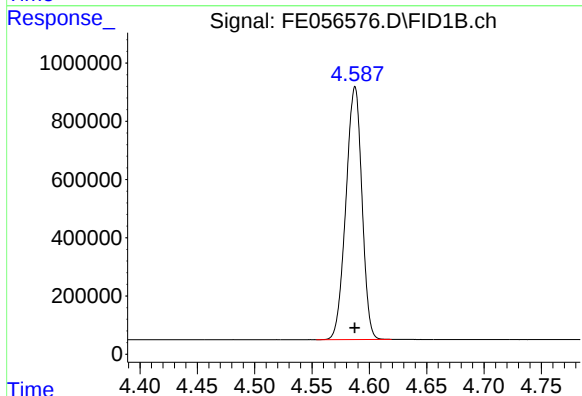




#1 n-Nonane (C9)

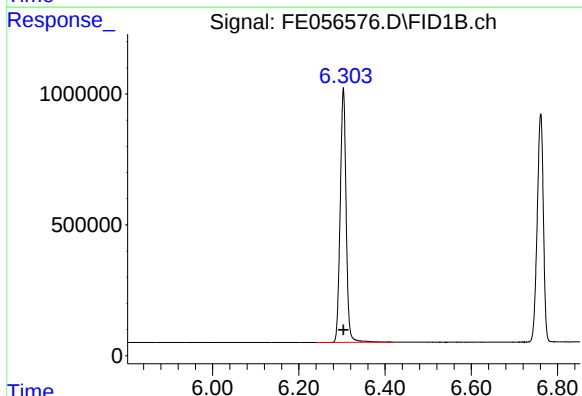
R.T.: 3.334 min
Delta R.T.: 0.000 min
Response: 8283699
Conc: 51.11 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



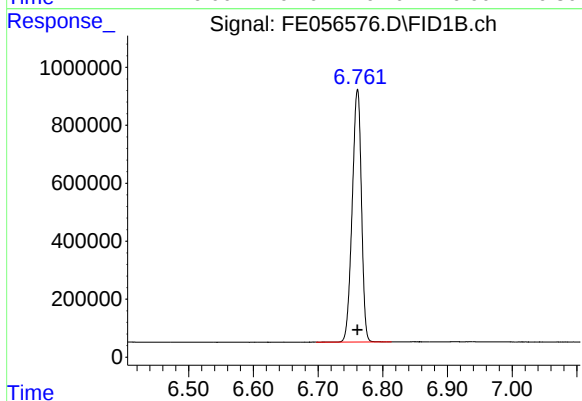
#2 n-Decane (C10)

R.T.: 4.587 min
Delta R.T.: 0.000 min
Response: 8458707
Conc: 51.10 ug/ml



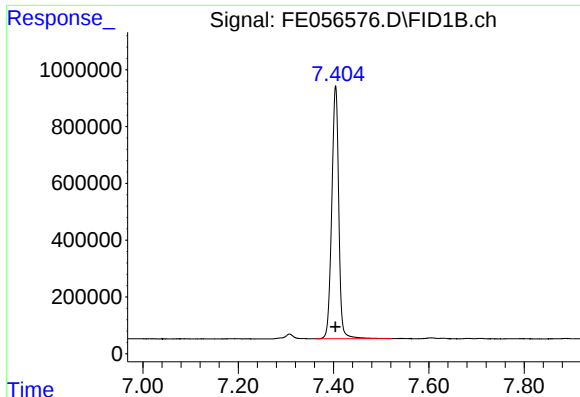
#3 A~Naphthalene (C11.7)

R.T.: 6.303 min
Delta R.T.: 0.000 min
Response: 9255687
Conc: 51.18 ug/ml



#4 n-Dodecane (C12)

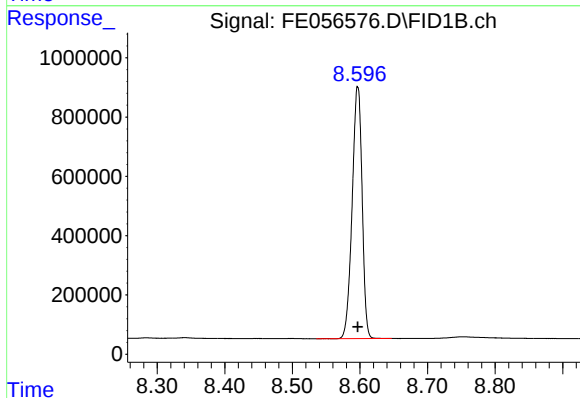
R.T.: 6.761 min
Delta R.T.: 0.000 min
Response: 8630420
Conc: 51.25 ug/ml



#5 A~2-methylnaphthalene (C12.89)

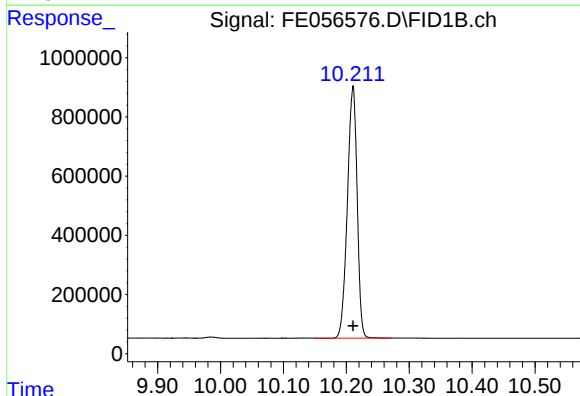
R.T.: 7.404 min
Delta R.T.: 0.000 min
Response: 9018328
Conc: 51.41 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



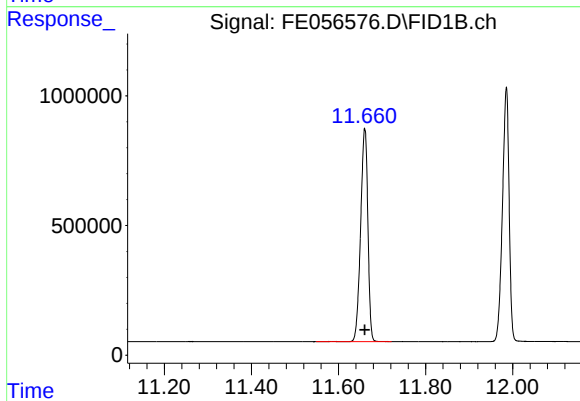
#6 n-Tetradecane (C14)

R.T.: 8.597 min
Delta R.T.: 0.000 min
Response: 8702299
Conc: 51.50 ug/ml



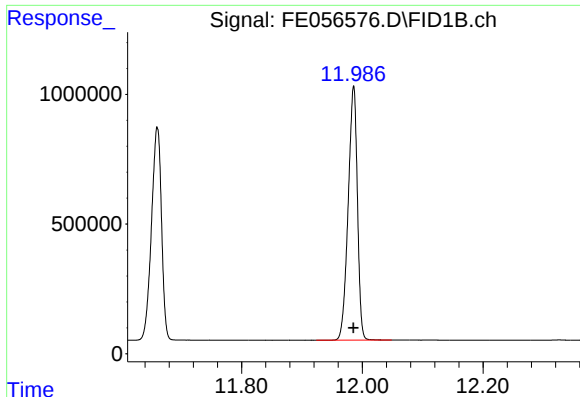
#7 n-Hexadecane (C16)

R.T.: 10.210 min
Delta R.T.: 0.000 min
Response: 9165065
Conc: 51.68 ug/ml



#8 n-Octadecane (C18)

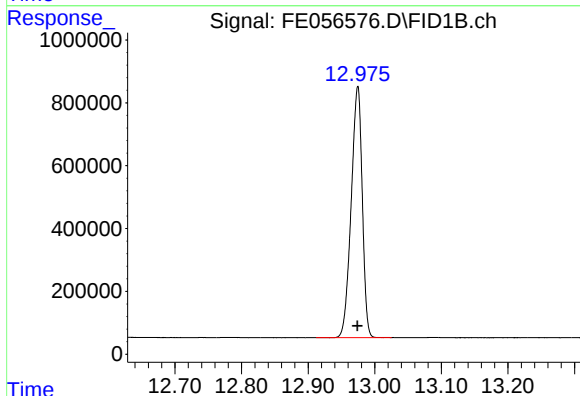
R.T.: 11.660 min
Delta R.T.: 0.000 min
Response: 9466424
Conc: 51.84 ug/ml



#9 ortho-Terphenyl (SURR)

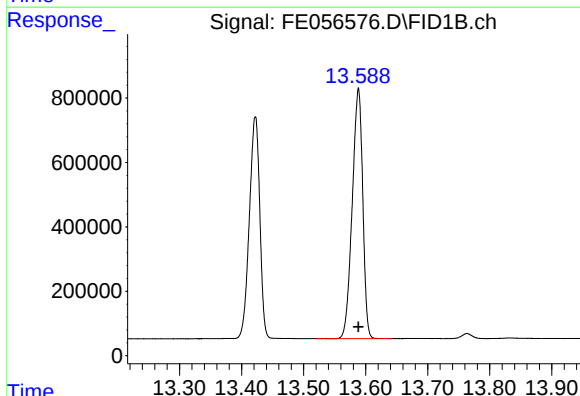
R.T.: 11.985 min
Delta R.T.: 0.000 min
Response: 10390390
Conc: 51.61 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



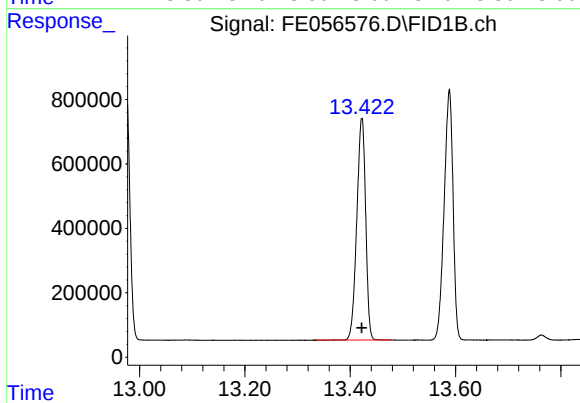
#10 n-Eicosane (C20)

R.T.: 12.974 min
Delta R.T.: 0.000 min
Response: 9224749
Conc: 51.78 ug/ml



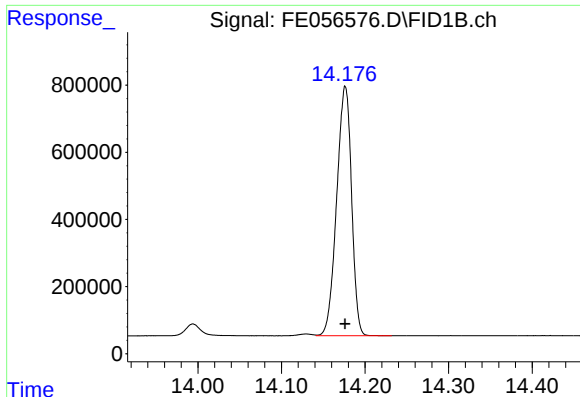
#11 n-Heneicosane (C21)

R.T.: 13.588 min
Delta R.T.: 0.000 min
Response: 9116016
Conc: 51.76 ug/ml



#12 1-chlorooctadecane (SURR)

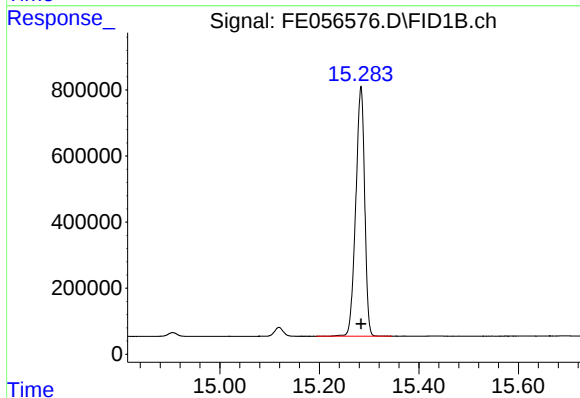
R.T.: 13.422 min
Delta R.T.: 0.000 min
Response: 8069798
Conc: 51.78 ug/ml



#13 n-Docosane (C22)

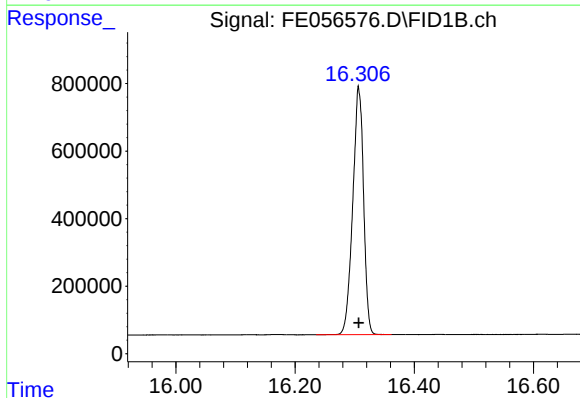
R.T.: 14.176 min
Delta R.T.: 0.000 min
Response: 9188407
Conc: 52.02 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



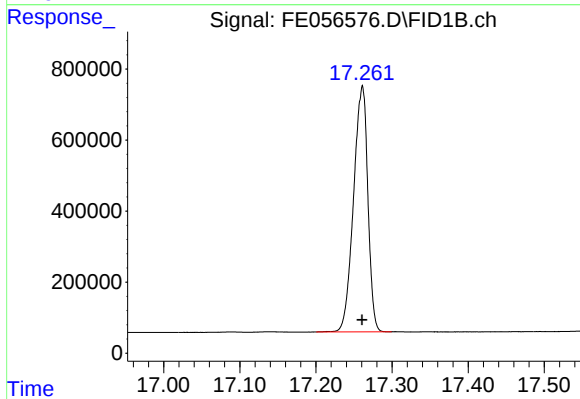
#14 n-Tetracosane (C24)

R.T.: 15.283 min
Delta R.T.: 0.000 min
Response: 9376021
Conc: 52.58 ug/ml



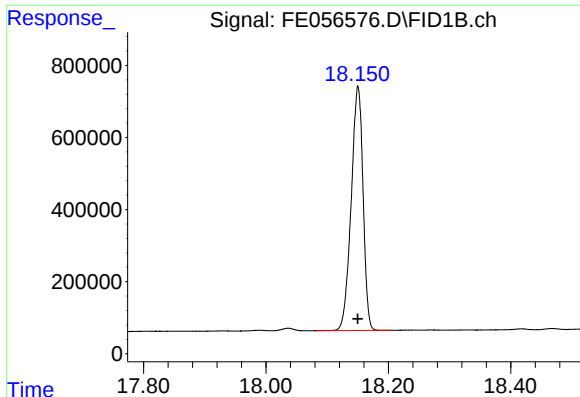
#15 n-Hexacosane (C26)

R.T.: 16.307 min
Delta R.T.: 0.000 min
Response: 9244371
Conc: 52.64 ug/ml



#16 n-Octacosane (C28)

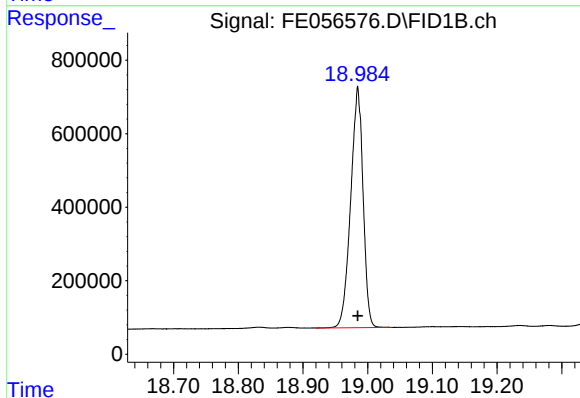
R.T.: 17.261 min
Delta R.T.: 0.000 min
Response: 9040985
Conc: 52.62 ug/ml



#17 n-Tricontane (C30)

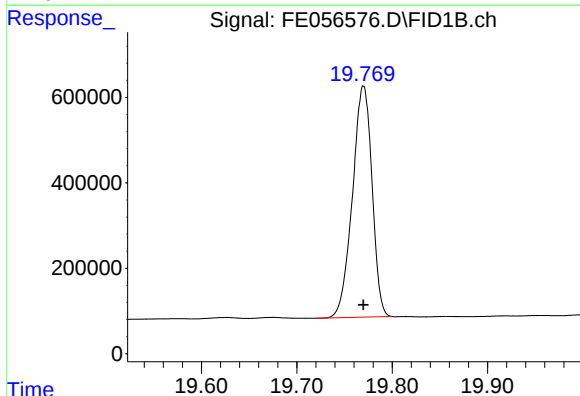
R.T.: 18.150 min
Delta R.T.: 0.000 min
Response: 9116641
Conc: 52.43 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



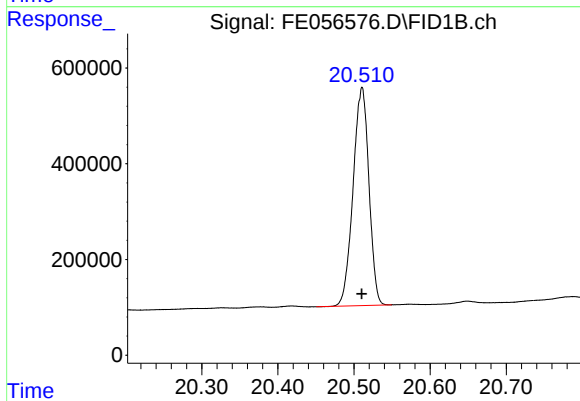
#18 n-Dotriacontane (C32)

R.T.: 18.985 min
Delta R.T.: 0.000 min
Response: 8697901
Conc: 52.19 ug/ml



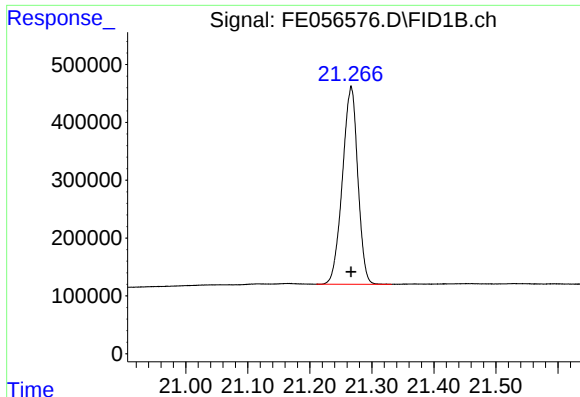
#19 n-Tetratriacontane (C34)

R.T.: 19.770 min
Delta R.T.: 0.000 min
Response: 7726773
Conc: 51.67 ug/ml



#20 n-Hexatriacontane (C36)

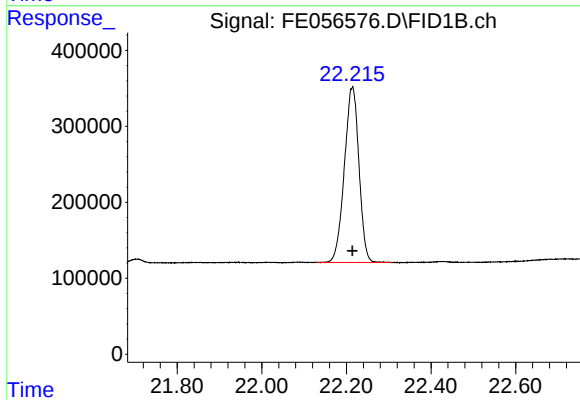
R.T.: 20.510 min
Delta R.T.: 0.000 min
Response: 6593672
Conc: 51.17 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.266 min
Delta R.T.: 0.000 min
Response: 5889118
Conc: 50.97 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.214 min
Delta R.T.: 0.000 min
Response: 5525608
Conc: 51.42 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056576.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 10:50
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.334	3.295	3.390	BB	859468	8283699	79.72%	4.402%
2	4.587	4.554	4.619	BBA	868249	8458707	81.41%	4.495%
3	6.303	6.240	6.415	BB	974202	9255687	89.08%	4.919%
4	6.761	6.697	6.814	BB	869786	8630420	83.06%	4.586%
5	7.404	7.364	7.522	BB	890333	9018328	86.79%	4.792%
6	8.597	8.535	8.647	BB	849680	8702299	83.75%	4.624%
7	10.210	10.152	10.272	BB	848274	9165065	88.21%	4.870%
8	11.660	11.549	11.722	BB	822893	9466424	91.11%	5.030%
9	11.985	11.924	12.049	BB	981415	10390390	100.00%	5.521%
10	12.974	12.912	13.025	BB	797927	9224749	88.78%	4.902%
11	13.422	13.335	13.479	BB	689355	8069798	77.67%	4.288%
12	13.588	13.520	13.642	BB	780350	9116016	87.74%	4.844%
13	14.176	14.142	14.232	VB	743785	9188407	88.43%	4.883%
14	15.283	15.194	15.345	BB	757600	9376021	90.24%	4.982%
15	16.307	16.235	16.362	BB	727588	9244371	88.97%	4.912%
16	17.261	17.200	17.299	BBA	690402	9040985	87.01%	4.804%
17	18.150	18.082	18.205	BB	679486	9116641	87.74%	4.845%
18	18.985	18.920	19.037	BB	654654	8697901	83.71%	4.622%
19	19.770	19.720	19.799	BBA	541984	7726773	74.36%	4.106%
20	20.510	20.450	20.549	BBA	457176	6593672	63.46%	3.504%
21	21.266	21.210	21.332	BB	342971	5889118	56.68%	3.129%
22	22.214	22.129	22.307	BB	230200	5525608	53.18%	2.936%
Sum of corrected areas:						188181079		

Aliphatic EPH 103025.M Thu Oct 30 12:57:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056577.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:20
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 30 12:00:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 11:59:52 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.980	4110239	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.418	3172652	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.333	3309356	20.000 ug/ml
2) T n-Decane (C10)	4.585	3388814	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.302	3665296	20.000 ug/ml
4) T n-Dodecane (C12)	6.758	3436704	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.402	3527076	20.000 ug/ml
6) T n-Tetradecane (C14)	8.593	3435589	20.000 ug/ml
7) T n-Hexadecane (C16)	10.207	3603610	20.000 ug/ml
8) T n-Octadecane (C18)	11.656	3719660	20.000 ug/ml
10) T n-Eicosane (C20)	12.970	3642327	20.000 ug/ml
11) T n-Heneicosane (C21)	13.584	3600979	20.000 ug/ml
13) T n-Docosane (C22)	14.172	3603427	20.000 ug/ml
14) T n-Tetracosane (C24)	15.278	3625778	20.000 ug/ml
15) T n-Hexacosane (C26)	16.302	3573189	20.000 ug/ml
16) T n-Octacosane (C28)	17.255	3520565	20.000 ug/ml
17) T n-Tricontane (C30)	18.146	3627924	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.981	3543930	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.766	3202986	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.507	2737391	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.262	2396120	20.000 ug/ml
22) T n-Tetracontane (C40)	22.211	2215261	20.000 ug/ml

(f)=RT Delta > 1/2 Window

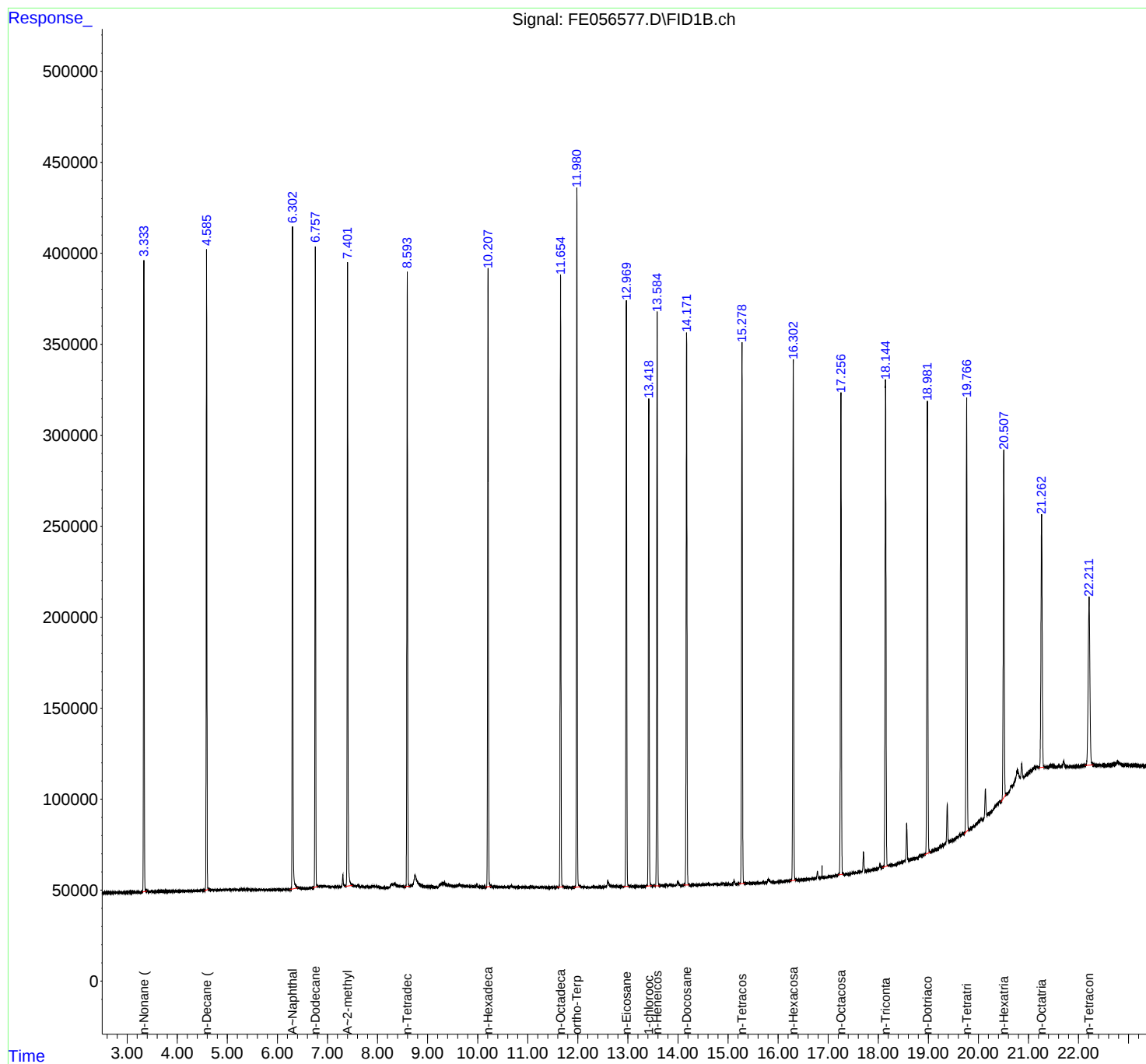
(m)=manual int.

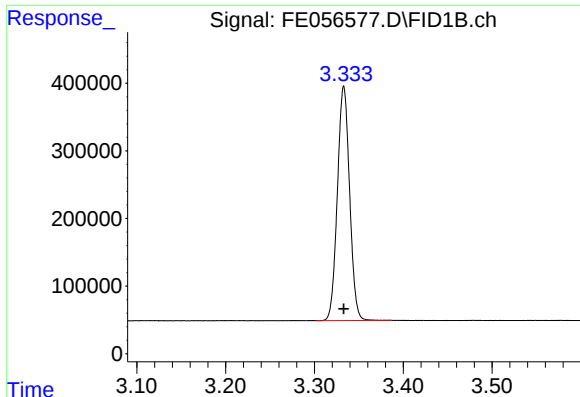
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056577.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 11:20
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 30 12:00:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 11:59:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

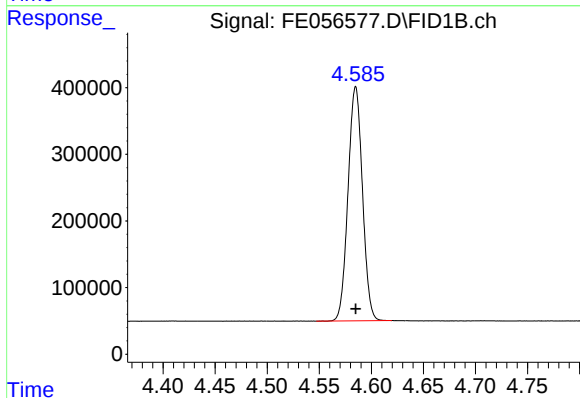




#1 n-Nonane (C9)

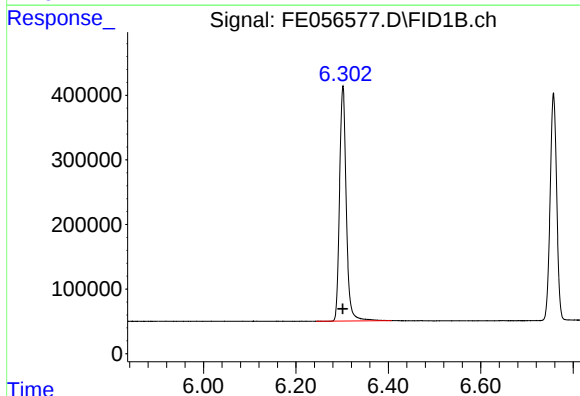
R.T.: 3.333 min
Delta R.T.: 0.000 min
Response: 3309356
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



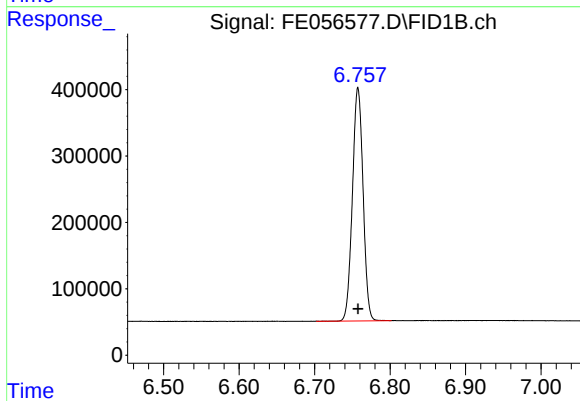
#2 n-Decane (C10)

R.T.: 4.585 min
Delta R.T.: 0.000 min
Response: 3388814
Conc: 20.00 ug/ml



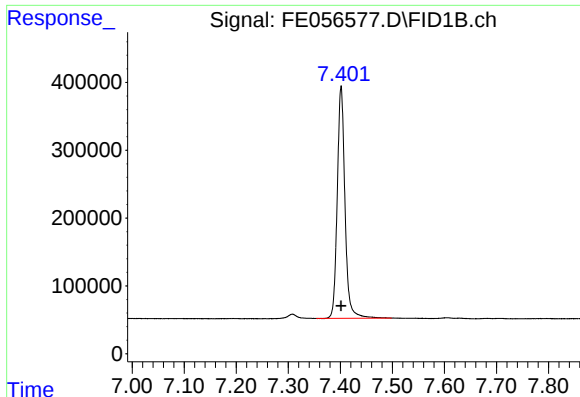
#3 A~Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 3665296
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

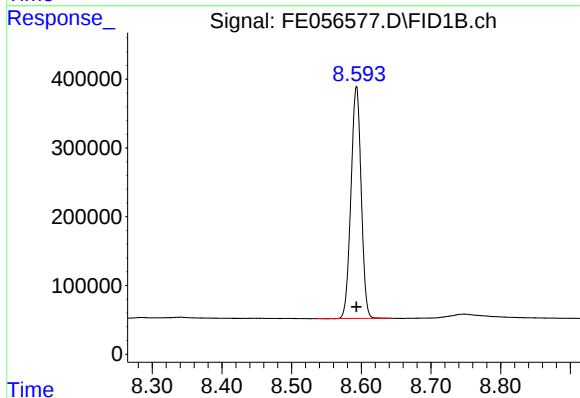
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 3436704
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

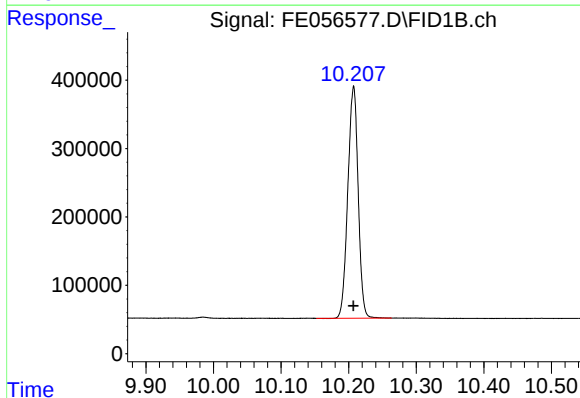
R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 3527076
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



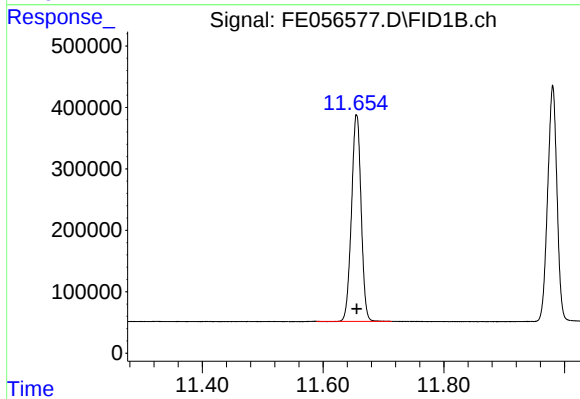
#6 n-Tetradecane (C14)

R.T.: 8.593 min
Delta R.T.: 0.000 min
Response: 3435589
Conc: 20.00 ug/ml



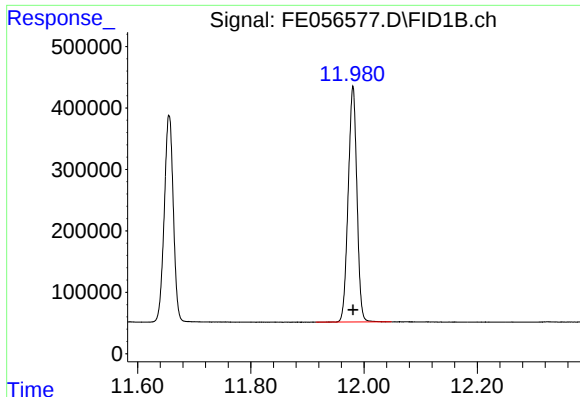
#7 n-Hexadecane (C16)

R.T.: 10.207 min
Delta R.T.: 0.000 min
Response: 3603610
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

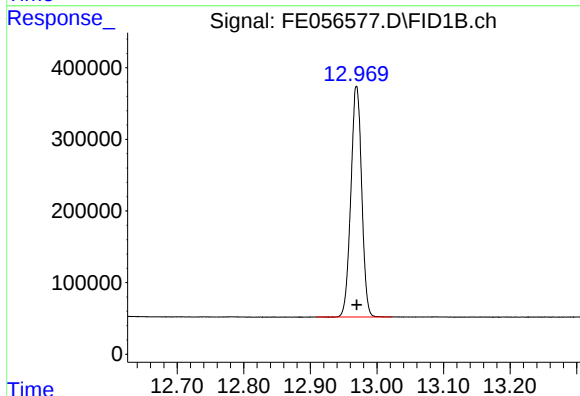
R.T.: 11.656 min
Delta R.T.: 0.000 min
Response: 3719660
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

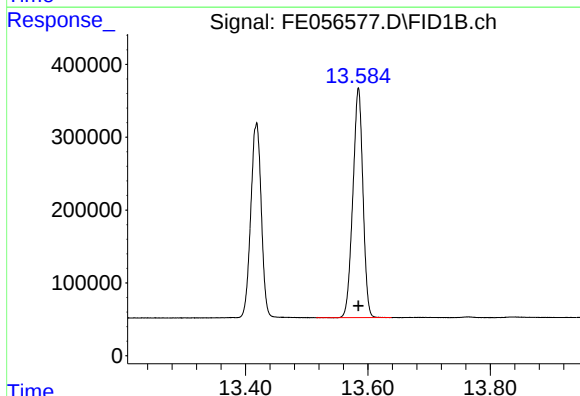
R.T.: 11.980 min
Delta R.T.: 0.000 min
Response: 4110239
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



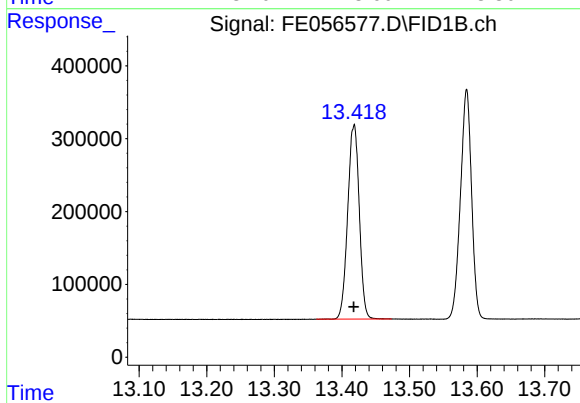
#10 n-Eicosane (C20)

R.T.: 12.970 min
Delta R.T.: 0.000 min
Response: 3642327
Conc: 20.00 ug/ml



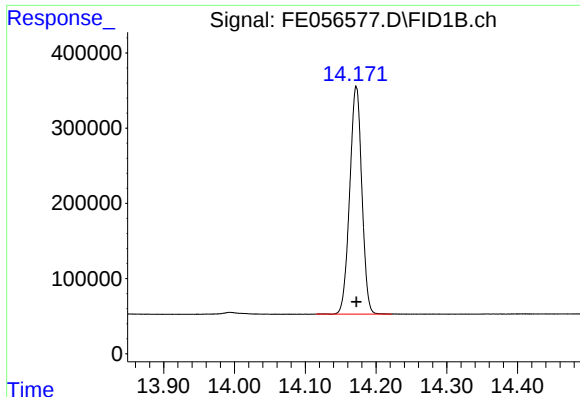
#11 n-Heneicosane (C21)

R.T.: 13.584 min
Delta R.T.: 0.000 min
Response: 3600979
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

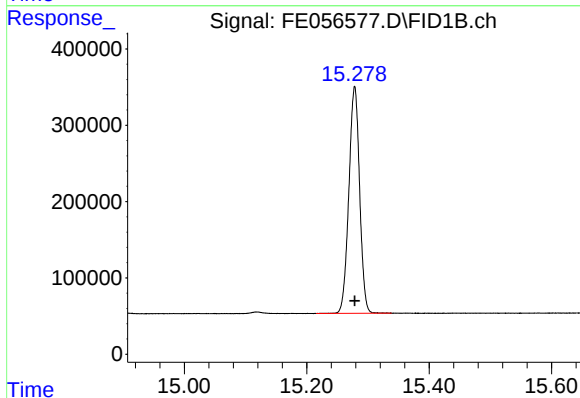
R.T.: 13.418 min
Delta R.T.: 0.000 min
Response: 3172652
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

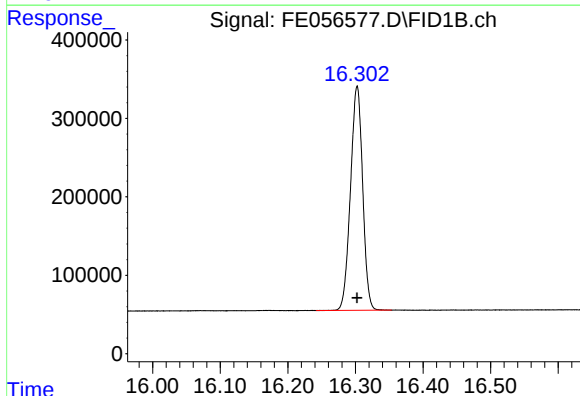
R.T.: 14.172 min
Delta R.T.: 0.000 min
Response: 3603427
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



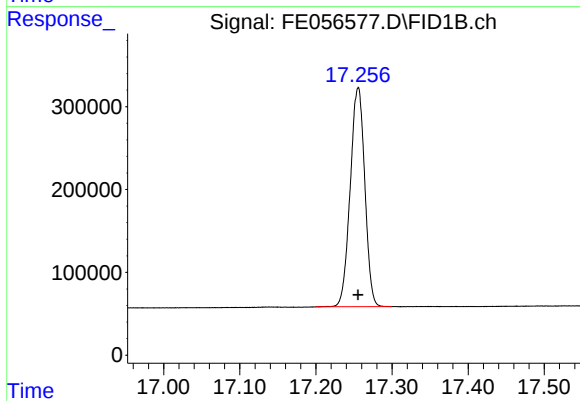
#14 n-Tetracosane (C24)

R.T.: 15.278 min
Delta R.T.: 0.000 min
Response: 3625778
Conc: 20.00 ug/ml



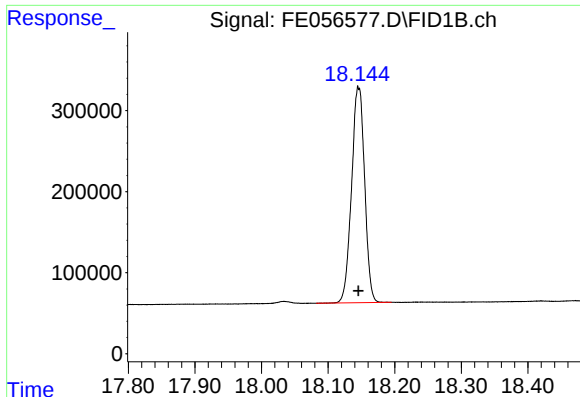
#15 n-Hexacosane (C26)

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 3573189
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

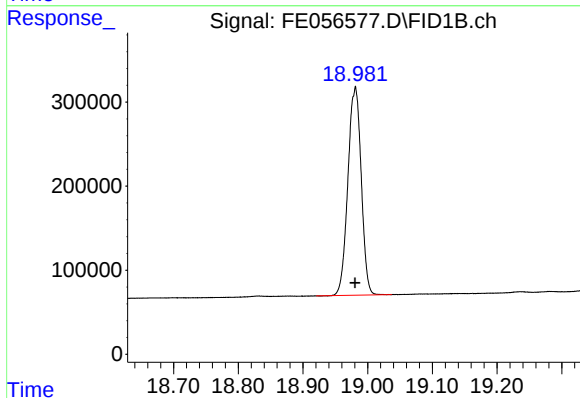
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 3520565
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

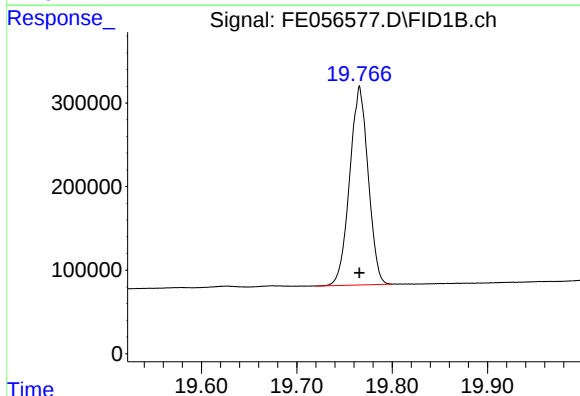
R.T.: 18.146 min
Delta R.T.: 0.000 min
Response: 3627924
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



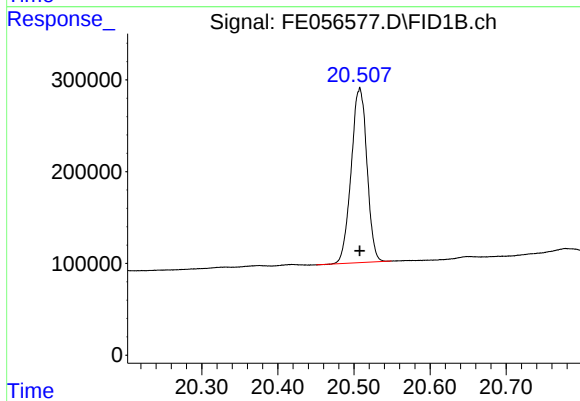
#18 n-Dotriacontane (C32)

R.T.: 18.981 min
Delta R.T.: 0.000 min
Response: 3543930
Conc: 20.00 ug/ml



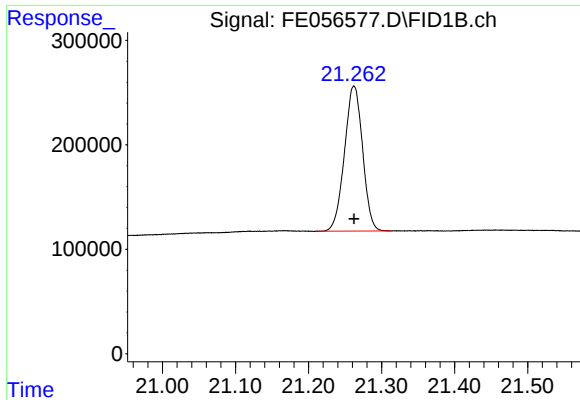
#19 n-Tetratriacontane (C34)

R.T.: 19.766 min
Delta R.T.: 0.000 min
Response: 3202986
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

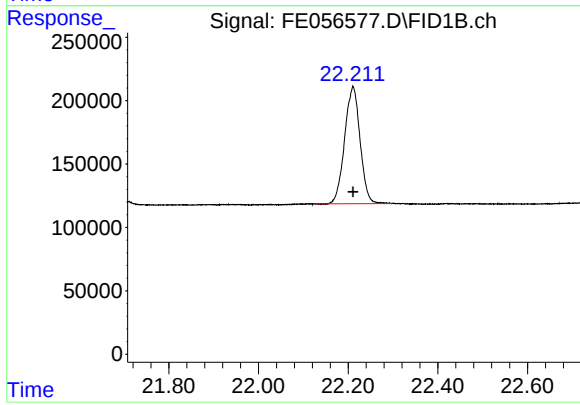
R.T.: 20.507 min
Delta R.T.: 0.000 min
Response: 2737391
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 2396120
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.211 min
Delta R.T.: 0.000 min
Response: 2215261
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056577.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:20
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.333	3.302	3.387	BB	346822	3309356	80.51%	4.433%
2	4.585	4.547	4.619	BBA	352192	3388814	82.45%	4.539%
3	6.302	6.244	6.407	BB	364861	3665296	89.17%	4.909%
4	6.758	6.702	6.802	BB	351549	3436704	83.61%	4.603%
5	7.402	7.354	7.499	BB	342824	3527076	85.81%	4.724%
6	8.593	8.535	8.644	BB	338958	3435589	83.59%	4.602%
7	10.207	10.152	10.264	BB	338730	3603610	87.67%	4.827%
8	11.656	11.589	11.714	BB	336890	3719660	90.50%	4.982%
9	11.980	11.915	12.049	BB	384534	4110239	100.00%	5.505%
10	12.970	12.909	13.022	BB	322608	3642327	88.62%	4.879%
11	13.418	13.362	13.474	BB	264565	3172652	77.19%	4.250%
12	13.584	13.515	13.639	BB	315131	3600979	87.61%	4.823%
13	14.172	14.115	14.222	BB	303235	3603427	87.67%	4.827%
14	15.278	15.215	15.339	BB	298227	3625778	88.21%	4.856%
15	16.302	16.242	16.354	BB	285534	3573189	86.93%	4.786%
16	17.255	17.200	17.299	BBA	264764	3520565	85.65%	4.716%
17	18.146	18.082	18.195	BB	266055	3627924	88.27%	4.859%
18	18.981	18.920	19.037	BB	246347	3543930	86.22%	4.747%
19	19.766	19.720	19.799	BBA	237128	3202986	77.93%	4.290%
20	20.507	20.450	20.549	BBA	189105	2737391	66.60%	3.667%
21	21.262	21.210	21.314	BB	138965	2396120	58.30%	3.209%
22	22.211	22.129	22.297	BB	92560	2215261	53.90%	2.967%
Sum of corrected areas:							74658870	

Aliphatic EPH 103025.M Thu Oct 30 12:57:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056578.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:51
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 30 12:21:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:21:37 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.979	2175105	10.592 ug/ml
Spiked Amount 50.000		Recovery =	21.18%
12) S 1-chlorooctadecane (S...	13.417	1673178	10.542 ug/ml
Spiked Amount 50.000		Recovery =	21.08%
Target Compounds			
1) T n-Nonane (C9)	3.332	1739861	10.541 ug/ml
2) T n-Decane (C10)	4.584	1778707	10.549 ug/ml
3) T A~Naphthalene (C11.7)	6.302	1900301	10.376 ug/ml
4) T n-Dodecane (C12)	6.757	1805400	10.532 ug/ml
5) T A~2-methylnaphthalene...	7.401	1809756	10.235 ug/ml
6) T n-Tetradecane (C14)	8.592	1806960	10.512 ug/ml
7) T n-Hexadecane (C16)	10.206	1900814	10.530 ug/ml
8) T n-Octadecane (C18)	11.654	1972225	10.589 ug/ml
10) T n-Eicosane (C20)	12.969	1949024	10.689 ug/ml
11) T n-Heneicosane (C21)	13.583	1922827	10.673 ug/ml
13) T n-Docosane (C22)	14.171	1965821	10.824 ug/ml
14) T n-Tetracosane (C24)	15.278	2071768	11.167 ug/ml
15) T n-Hexacosane (C26)	16.302	2057752	11.236 ug/ml
16) T n-Octacosane (C28)	17.255	2055084	11.402 ug/ml
17) T n-Tricontane (C30)	18.145	2121276	11.564 ug/ml
18) T n-Dotriacontane (C32)	18.980	2084284	11.769 ug/ml
19) T n-Tetratriacontane (C34)	19.764	1830892	11.592 ug/ml
20) T n-Hexatriacontane (C36)	20.507	1529216	11.338 ug/ml
21) T n-Octatriacontane (C38)	21.262	1330818	11.096 ug/ml
22) T n-Tetracontane (C40)	22.208	1245352	11.147 ug/ml

(f)=RT Delta > 1/2 Window

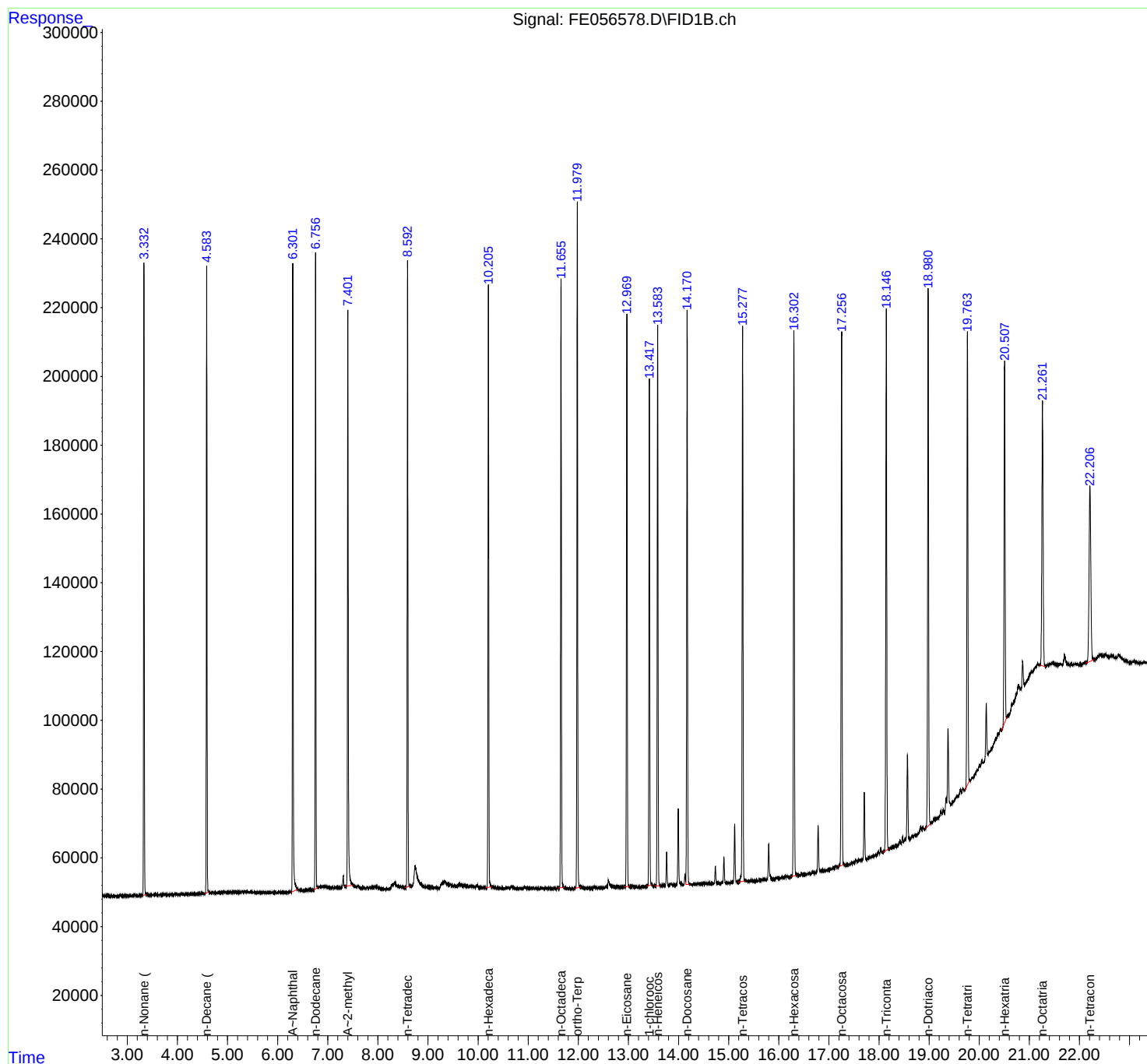
(m)=manual int.

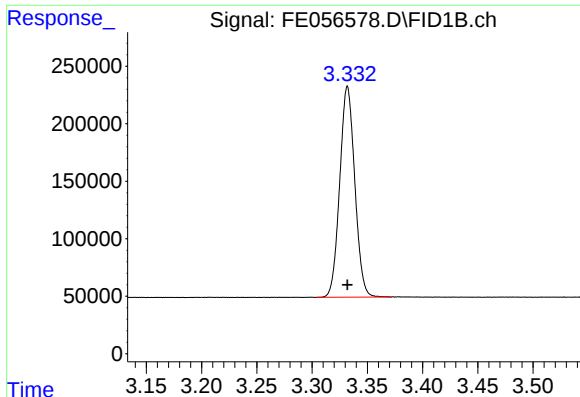
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056578.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 11:51
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 30 12:21:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:21:37 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

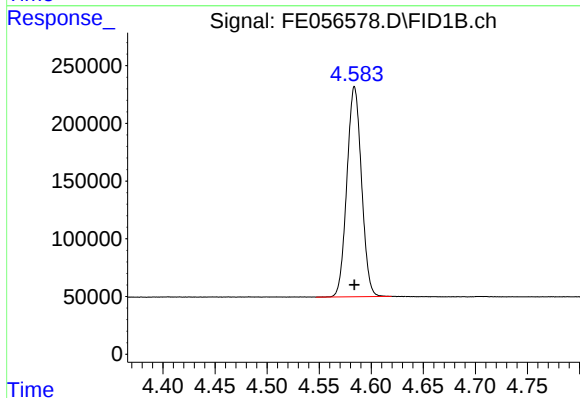




#1 n-Nonane (C9)

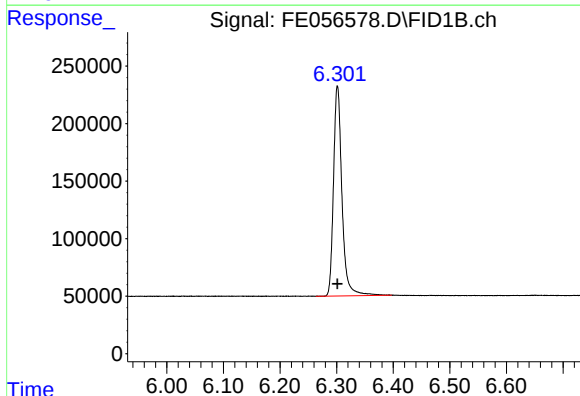
R.T.: 3.332 min
Delta R.T.: 0.000 min
Response: 1739861
Conc: 10.54 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



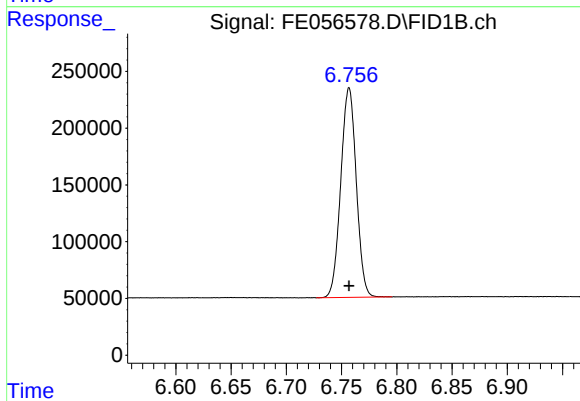
#2 n-Decane (C10)

R.T.: 4.584 min
Delta R.T.: 0.000 min
Response: 1778707
Conc: 10.55 ug/ml



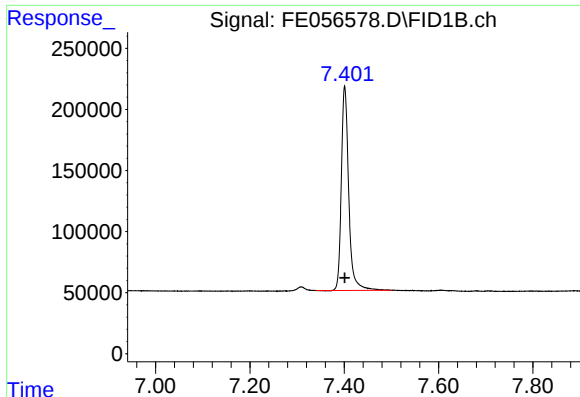
#3 A~Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 1900301
Conc: 10.38 ug/ml



#4 n-Dodecane (C12)

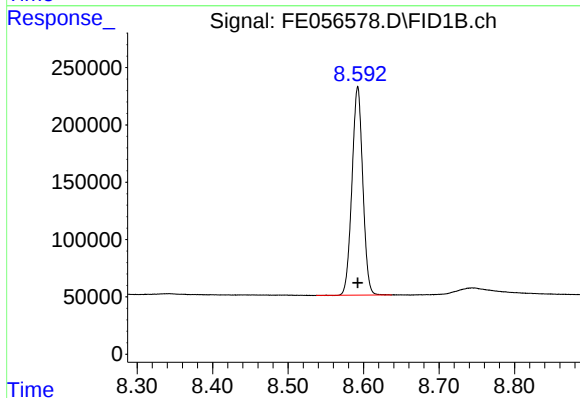
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 1805400
Conc: 10.53 ug/ml



#5 A~2-methylnaphthalene (C12.89)

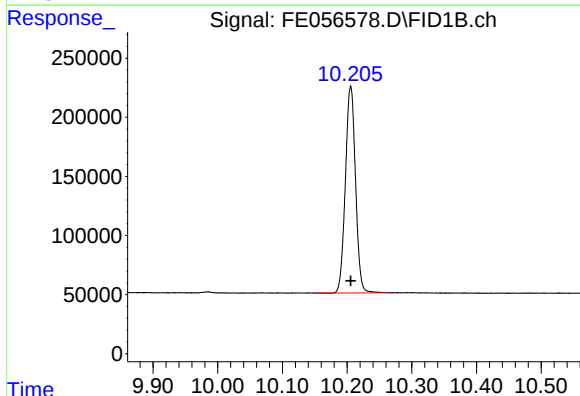
R.T.: 7.401 min
Delta R.T.: 0.000 min
Response: 1809756
Conc: 10.24 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



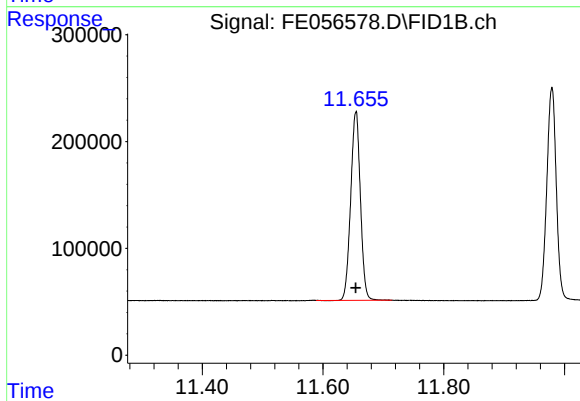
#6 n-Tetradecane (C14)

R.T.: 8.592 min
Delta R.T.: 0.000 min
Response: 1806960
Conc: 10.51 ug/ml



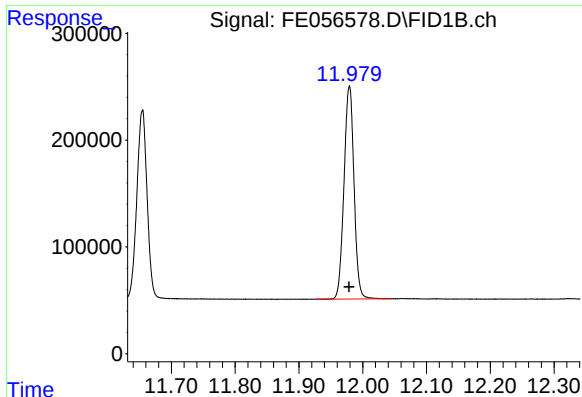
#7 n-Hexadecane (C16)

R.T.: 10.206 min
Delta R.T.: 0.000 min
Response: 1900814
Conc: 10.53 ug/ml



#8 n-Octadecane (C18)

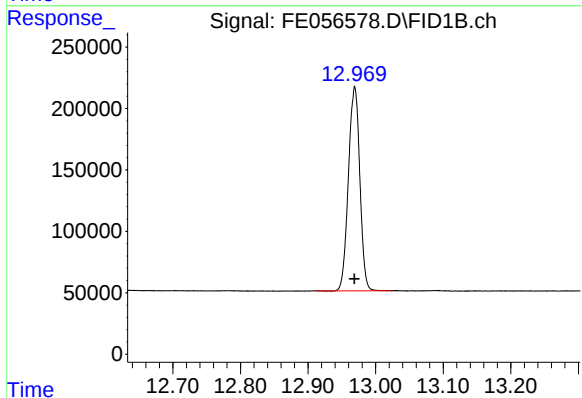
R.T.: 11.654 min
Delta R.T.: 0.000 min
Response: 1972225
Conc: 10.59 ug/ml



#9 ortho-Terphenyl (SURR)

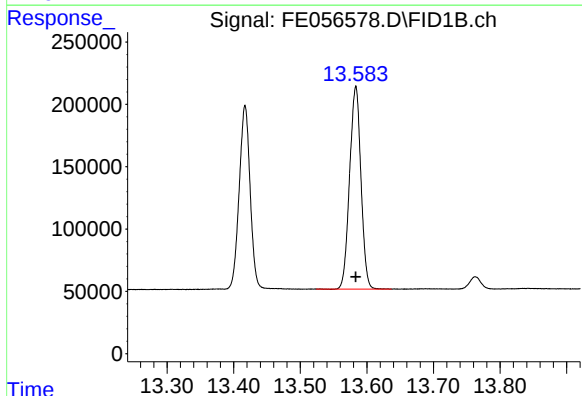
R.T.: 11.979 min
Delta R.T.: 0.000 min
Response: 2175105
Conc: 10.59 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



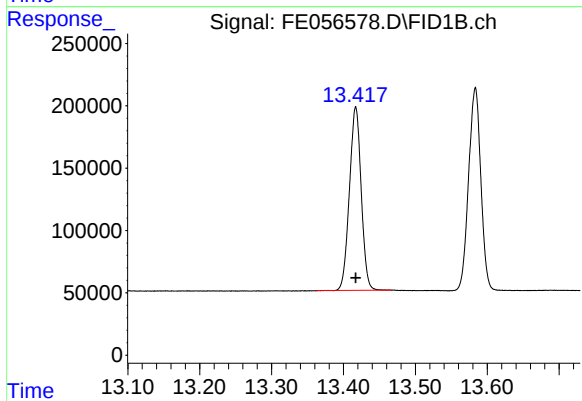
#10 n-Eicosane (C20)

R.T.: 12.969 min
Delta R.T.: 0.000 min
Response: 1949024
Conc: 10.69 ug/ml



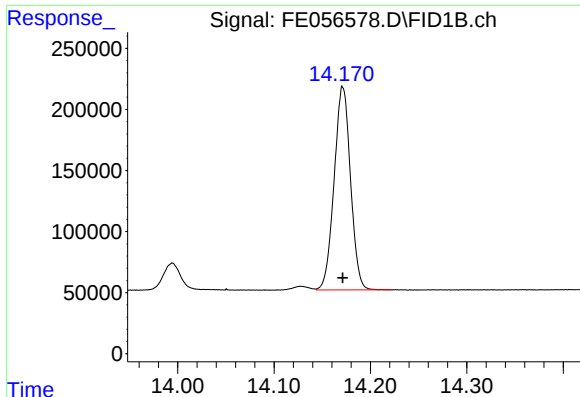
#11 n-Heneicosane (C21)

R.T.: 13.583 min
Delta R.T.: 0.000 min
Response: 1922827
Conc: 10.67 ug/ml



#12 1-chlorooctadecane (SURR)

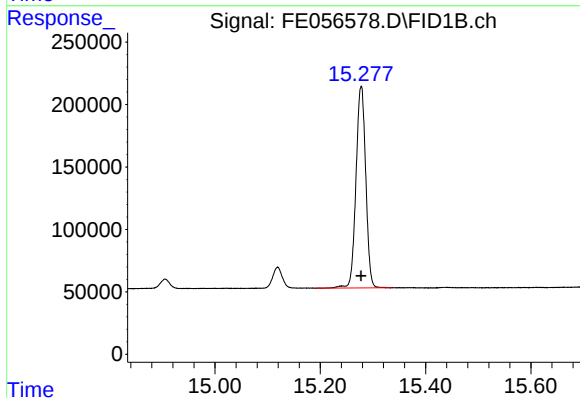
R.T.: 13.417 min
Delta R.T.: 0.000 min
Response: 1673178
Conc: 10.54 ug/ml



#13 n-Docosane (C22)

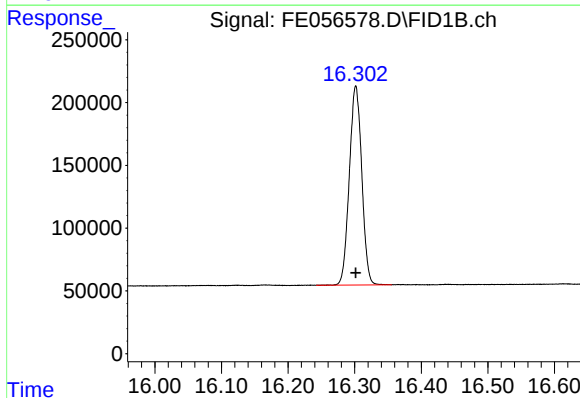
R.T.: 14.171 min
Delta R.T.: 0.000 min
Response: 1965821
Conc: 10.82 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



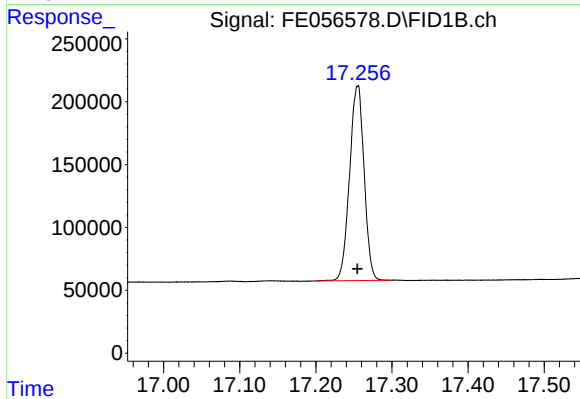
#14 n-Tetracosane (C24)

R.T.: 15.278 min
Delta R.T.: 0.000 min
Response: 2071768
Conc: 11.17 ug/ml



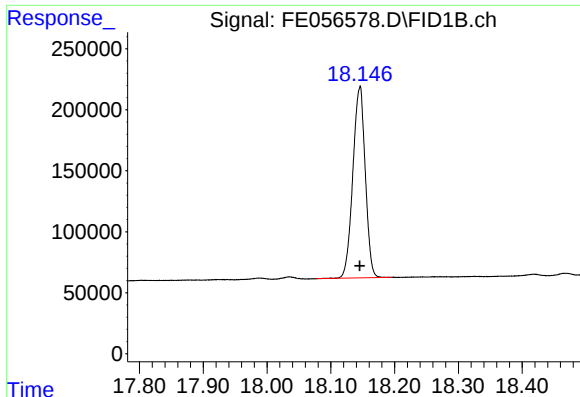
#15 n-Hexacosane (C26)

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 2057752
Conc: 11.24 ug/ml



#16 n-Octacosane (C28)

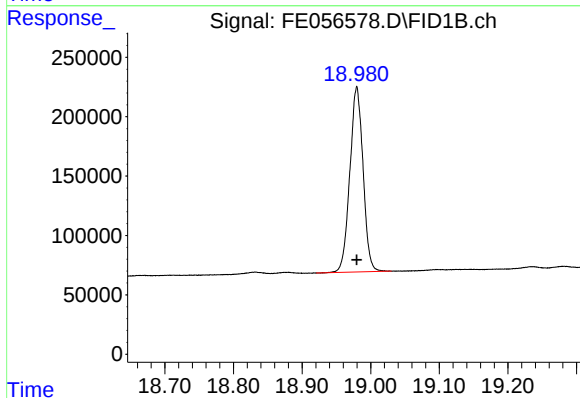
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 2055084
Conc: 11.40 ug/ml



#17 n-Tricontane (C30)

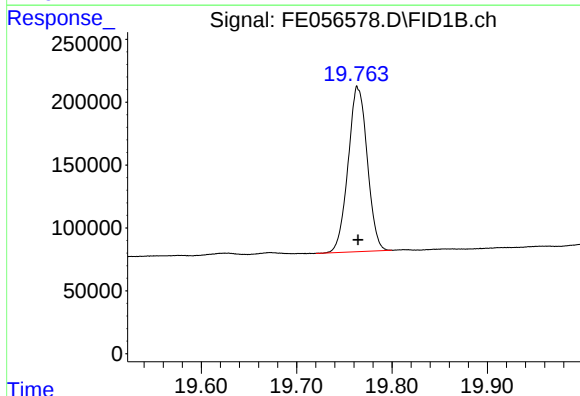
R.T.: 18.145 min
Delta R.T.: 0.000 min
Response: 2121276
Conc: 11.56 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



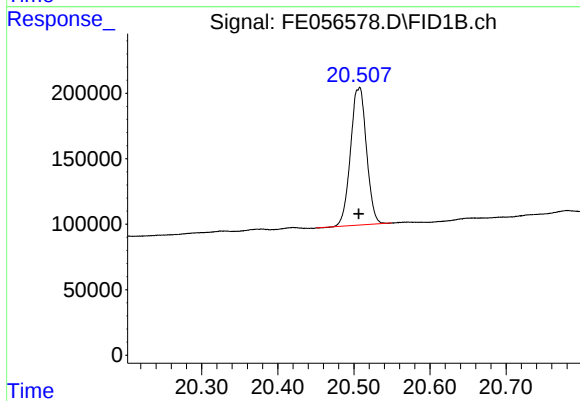
#18 n-Dotriacontane (C32)

R.T.: 18.980 min
Delta R.T.: 0.000 min
Response: 2084284
Conc: 11.77 ug/ml



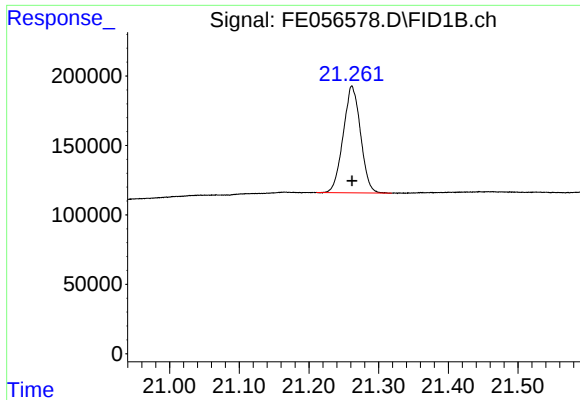
#19 n-Tetratriacontane (C34)

R.T.: 19.764 min
Delta R.T.: 0.000 min
Response: 1830892
Conc: 11.59 ug/ml



#20 n-Hexatriacontane (C36)

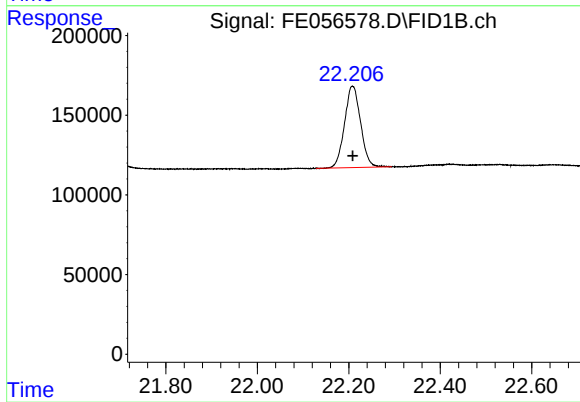
R.T.: 20.507 min
Delta R.T.: 0.000 min
Response: 1529216
Conc: 11.34 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 1330818
Conc: 11.10 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.208 min
Delta R.T.: 0.000 min
Response: 1245352
Conc: 11.15 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056578.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:51
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.332	3.304	3.372	BB	183333	1739861	79.99%	4.272%
2	4.584	4.547	4.620	BBA	182225	1778707	81.78%	4.367%
3	6.302	6.264	6.397	BB	182183	1900301	87.37%	4.666%
4	6.757	6.727	6.795	BB	185256	1805400	83.00%	4.433%
5	7.401	7.340	7.500	BB	165998	1809756	83.20%	4.444%
6	8.592	8.537	8.637	BB	181787	1806960	83.07%	4.437%
7	10.206	10.152	10.269	BB	174738	1900814	87.39%	4.667%
8	11.654	11.589	11.714	BB	176404	1972225	90.67%	4.843%
9	11.979	11.927	12.045	BB	199071	2175105	100.00%	5.341%
10	12.969	12.912	13.024	BB	166384	1949024	89.61%	4.786%
11	13.417	13.362	13.467	BB	147215	1673178	76.92%	4.108%
12	13.583	13.524	13.637	BB	163350	1922827	88.40%	4.721%
13	14.171	14.144	14.222	VB	165444	1965821	90.38%	4.827%
14	15.278	15.192	15.335	BB	161436	2071768	95.25%	5.087%
15	16.302	16.242	16.355	BB	158775	2057752	94.60%	5.053%
16	17.255	17.200	17.300	BBA	155015	2055084	94.48%	5.046%
17	18.145	18.077	18.195	BB	156516	2121276	97.53%	5.209%
18	18.980	18.920	19.030	BB	156591	2084284	95.82%	5.118%
19	19.764	19.720	19.800	BBA	130721	1830892	84.17%	4.496%
20	20.507	20.450	20.550	BBA	104860	1529216	70.31%	3.755%
21	21.262	21.210	21.319	BB	76821	1330818	61.18%	3.268%
22	22.208	22.129	22.294	BB	50974	1245352	57.25%	3.058%
Sum of corrected areas:							40726422	

Aliphatic EPH 103025.M Thu Oct 30 12:58:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056579.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 12:21
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 30 12:48:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:47:42 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.979	1115676	5.340 ug/ml
Spiked Amount 50.000		Recovery =	10.68%
12) S 1-chlorooctadecane (S...	13.417	853728	5.299 ug/ml
Spiked Amount 50.000		Recovery =	10.60%
Target Compounds			
1) T n-Nonane (C9)	3.333	897930	5.346 ug/ml
2) T n-Decane (C10)	4.585	917558	5.347 ug/ml
3) T A~Naphthalene (C11.7)	6.303	951651	5.156 ug/ml
4) T n-Dodecane (C12)	6.757	919808	5.288 ug/ml
5) T A~2-methylnaphthalene...	7.403	894288	5.046 ug/ml
6) T n-Tetradecane (C14)	8.592	925756	5.304 ug/ml
7) T n-Hexadecane (C16)	10.206	963615	5.267 ug/ml
8) T n-Octadecane (C18)	11.654	1006643	5.319 ug/ml
10) T n-Eicosane (C20)	12.969	1012155	5.431 ug/ml
11) T n-Heneicosane (C21)	13.582	993871	5.405 ug/ml
13) T n-Docosane (C22)	14.171	1047683	5.597 ug/ml
14) T n-Tetracosane (C24)	15.277	1186109	6.056 ug/ml
15) T n-Hexacosane (C26)	16.302	1195552	6.152 ug/ml
16) T n-Octacosane (C28)	17.255	1236772	6.386 ug/ml
17) T n-Tricontane (C30)	18.145	1343777	6.702 ug/ml
18) T n-Dotriacontane (C32)	18.981	1374204	6.988 ug/ml
19) T n-Tetratriacontane (C34)	19.765	1156477	6.700 ug/ml
20) T n-Hexatriacontane (C36)	20.507	919020	6.353 ug/ml
21) T n-Octatriacontane (C38)	21.262	747858	5.942 ug/ml
22) T n-Tetracontane (C40)	22.209	655889	5.673 ug/ml

(f)=RT Delta > 1/2 Window

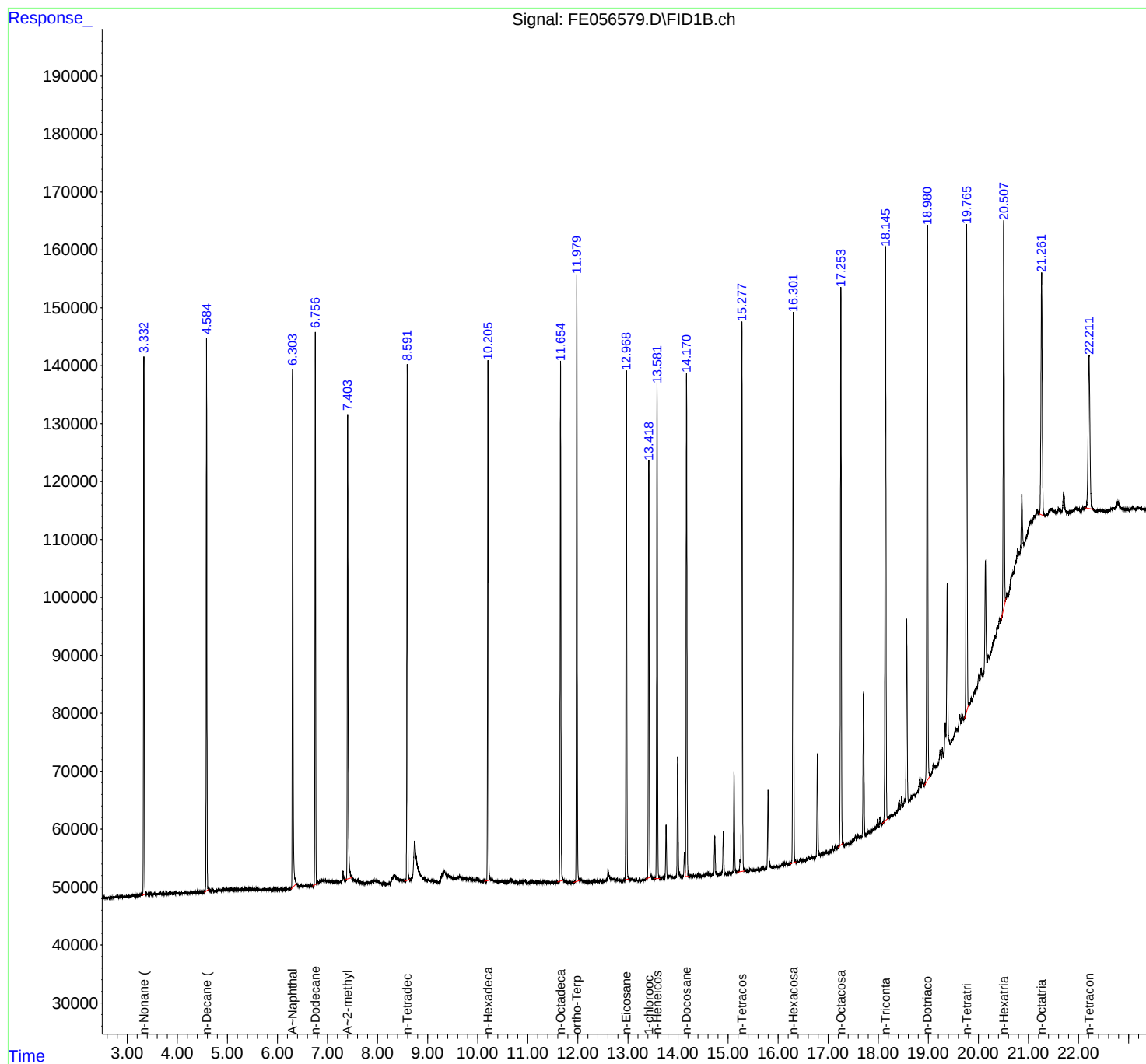
(m)=manual int.

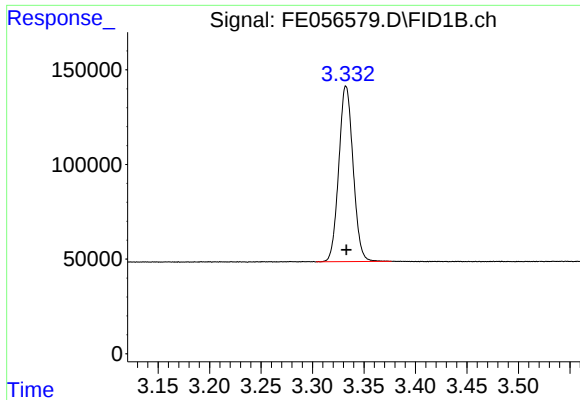
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056579.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 12:21
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 30 12:48:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:47:42 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

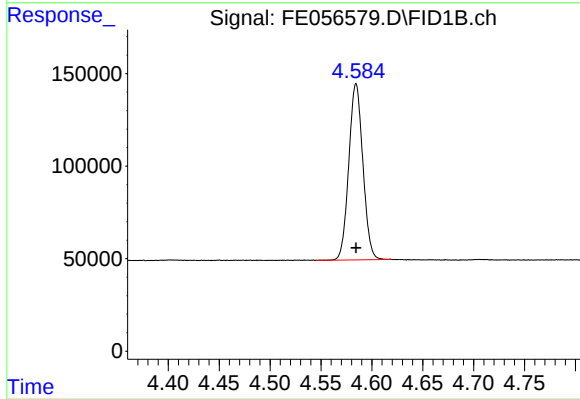




#1 n-Nonane (C9)

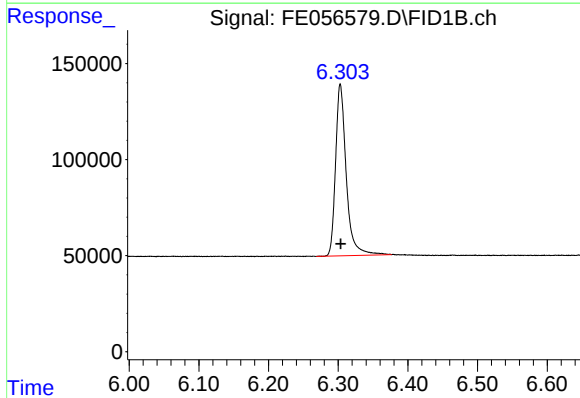
R.T.: 3.333 min
Delta R.T.: 0.000 min
Response: 897930
Conc: 5.35 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



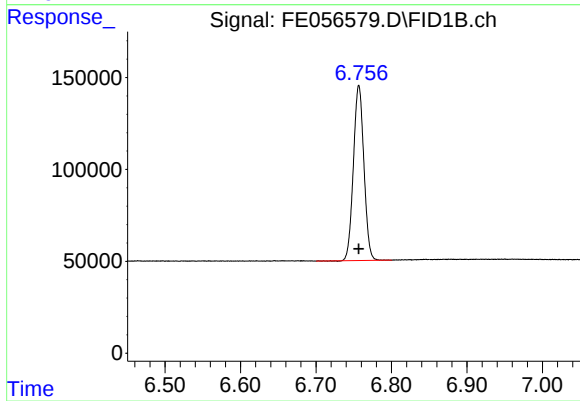
#2 n-Decane (C10)

R.T.: 4.585 min
Delta R.T.: 0.000 min
Response: 917558
Conc: 5.35 ug/ml



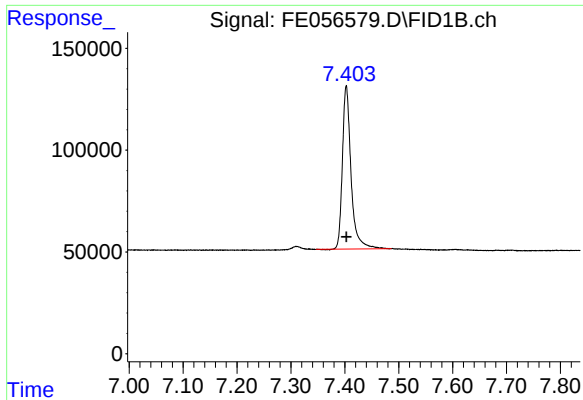
#3 A~Naphthalene (C11.7)

R.T.: 6.303 min
Delta R.T.: 0.000 min
Response: 951651
Conc: 5.16 ug/ml



#4 n-Dodecane (C12)

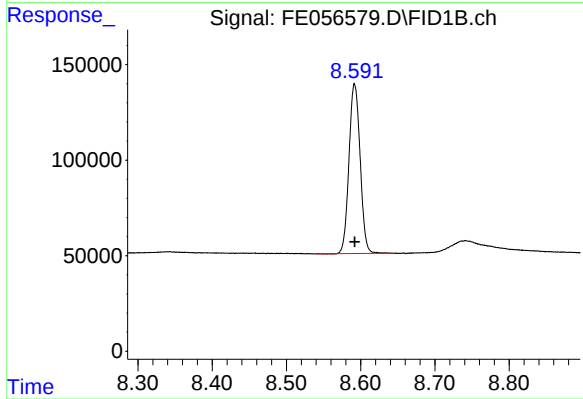
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 919808
Conc: 5.29 ug/ml



#5 A~2-methylnaphthalene (C12.89)

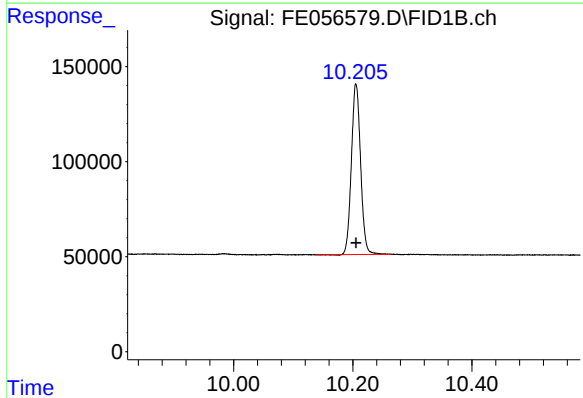
R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 894288
Conc: 5.05 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



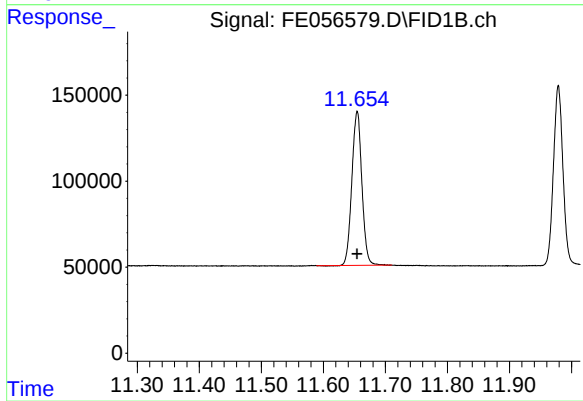
#6 n-Tetradecane (C14)

R.T.: 8.592 min
Delta R.T.: 0.000 min
Response: 925756
Conc: 5.30 ug/ml



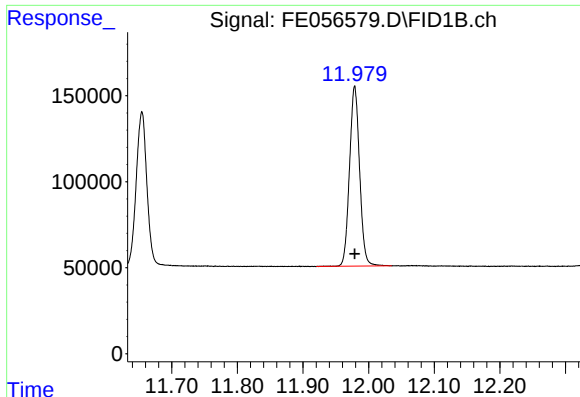
#7 n-Hexadecane (C16)

R.T.: 10.206 min
Delta R.T.: 0.000 min
Response: 963615
Conc: 5.27 ug/ml



#8 n-Octadecane (C18)

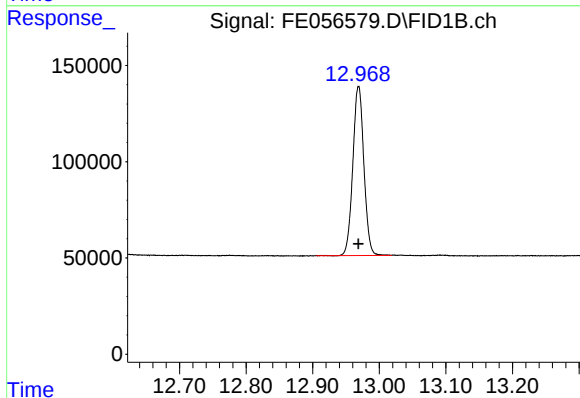
R.T.: 11.654 min
Delta R.T.: 0.000 min
Response: 1006643
Conc: 5.32 ug/ml



#9 ortho-Terphenyl (SURR)

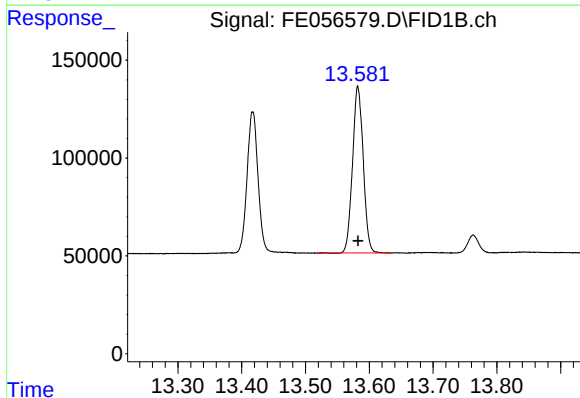
R.T.: 11.979 min
Delta R.T.: 0.000 min
Response: 1115676
Conc: 5.34 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



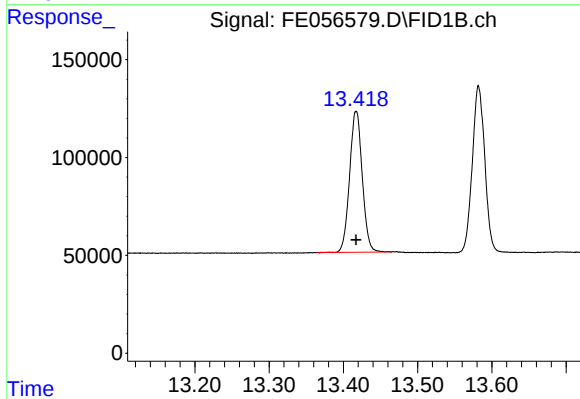
#10 n-Eicosane (C20)

R.T.: 12.969 min
Delta R.T.: 0.000 min
Response: 1012155
Conc: 5.43 ug/ml



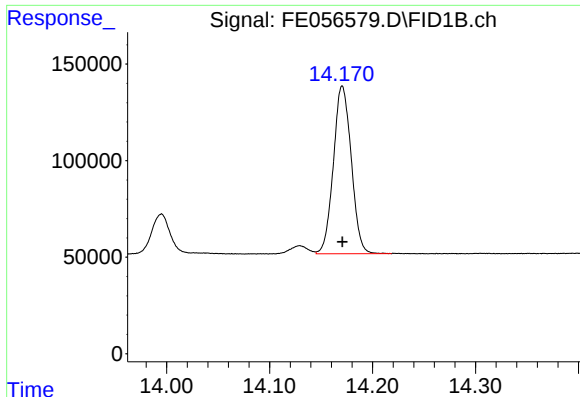
#11 n-Heneicosane (C21)

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 993871
Conc: 5.40 ug/ml



#12 1-chlorooctadecane (SURR)

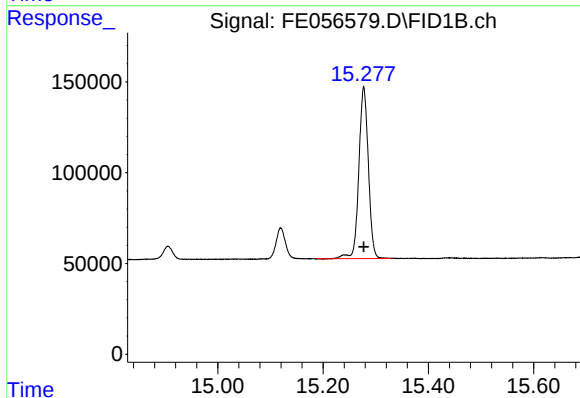
R.T.: 13.417 min
Delta R.T.: 0.000 min
Response: 853728
Conc: 5.30 ug/ml



#13 n-Docosane (C22)

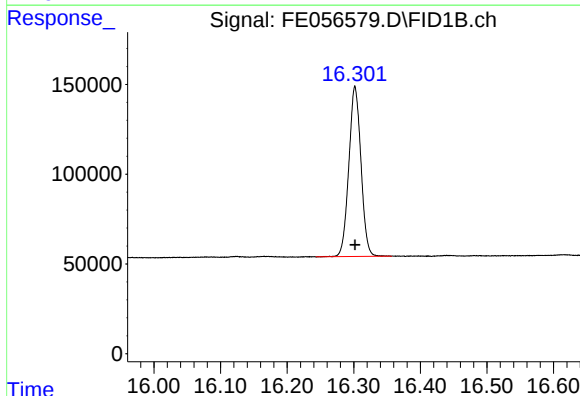
R.T.: 14.171 min
Delta R.T.: 0.000 min
Response: 1047683
Conc: 5.60 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



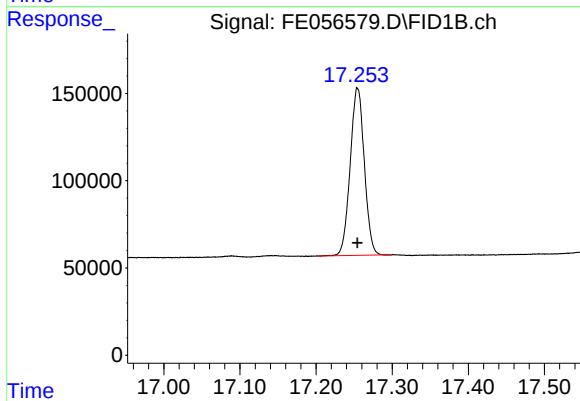
#14 n-Tetracosane (C24)

R.T.: 15.277 min
Delta R.T.: 0.000 min
Response: 1186109
Conc: 6.06 ug/ml



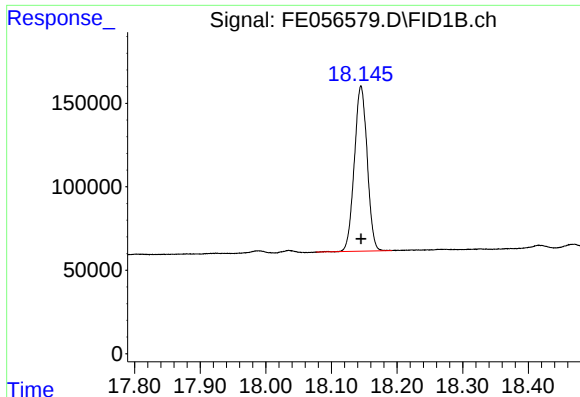
#15 n-Hexacosane (C26)

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 1195552
Conc: 6.15 ug/ml



#16 n-Octacosane (C28)

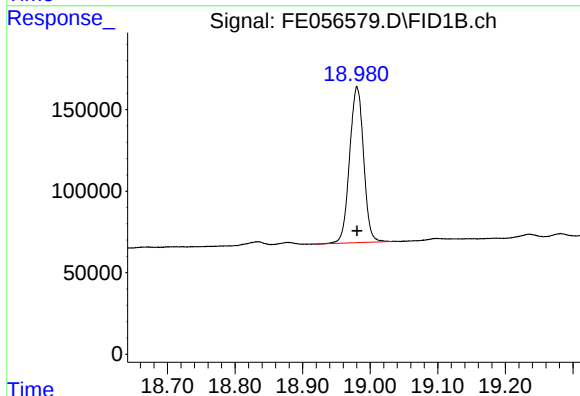
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 1236772
Conc: 6.39 ug/ml



#17 n-Tricontane (C30)

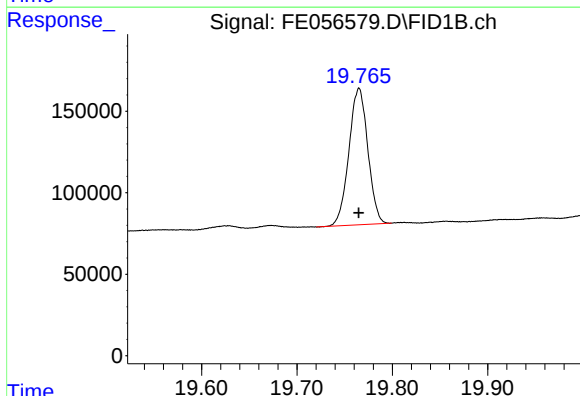
R.T.: 18.145 min
Delta R.T.: 0.000 min
Response: 1343777
Conc: 6.70 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



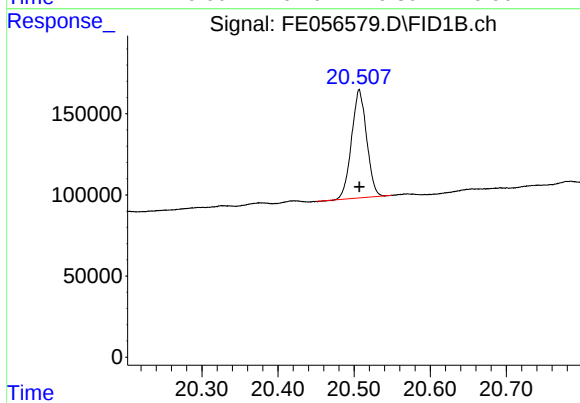
#18 n-Dotriacontane (C32)

R.T.: 18.981 min
Delta R.T.: 0.000 min
Response: 1374204
Conc: 6.99 ug/ml



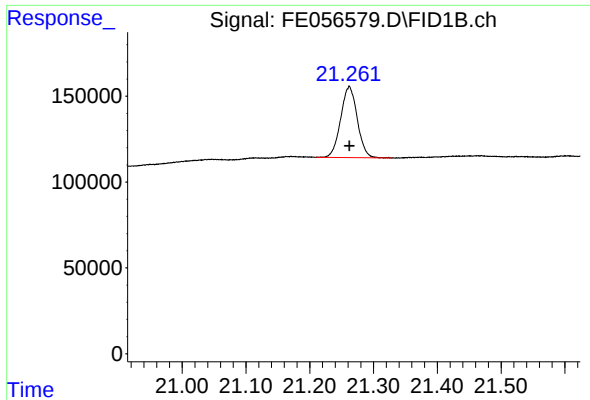
#19 n-Tetratriacontane (C34)

R.T.: 19.765 min
Delta R.T.: 0.000 min
Response: 1156477
Conc: 6.70 ug/ml



#20 n-Hexatriacontane (C36)

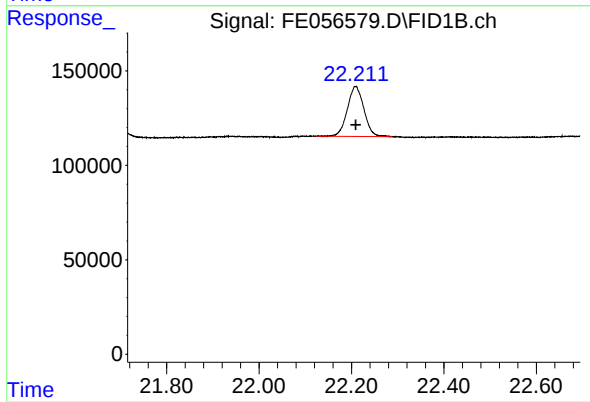
R.T.: 20.507 min
Delta R.T.: 0.000 min
Response: 919020
Conc: 6.35 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 747858
Conc: 5.94 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.209 min
Delta R.T.: 0.000 min
Response: 655889
Conc: 5.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056579.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 12:21
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.333	3.303	3.377	BB	92471	897930	65.34%	4.024%
2	4.585	4.545	4.619	BBA	95384	917558	66.77%	4.112%
3	6.303	6.268	6.377	BB	88968	951651	69.25%	4.264%
4	6.757	6.700	6.800	BB	95428	919808	66.93%	4.122%
5	7.403	7.347	7.487	BB	80203	894288	65.08%	4.007%
6	8.592	8.540	8.642	BB	88772	925756	67.37%	4.148%
7	10.206	10.138	10.265	BB	89800	963615	70.12%	4.318%
8	11.654	11.588	11.710	BB	89973	1006643	73.25%	4.511%
9	11.979	11.920	12.035	BB	104613	1115676	81.19%	4.999%
10	12.969	12.905	13.018	BB	87940	1012155	73.65%	4.536%
11	13.417	13.363	13.465	BB	72050	853728	62.13%	3.826%
12	13.582	13.517	13.635	BB	85261	993871	72.32%	4.454%
13	14.171	14.145	14.218	VB	86814	1047683	76.24%	4.695%
14	15.277	15.187	15.330	BB	94557	1186109	86.31%	5.315%
15	16.302	16.243	16.357	BB	94717	1195552	87.00%	5.357%
16	17.255	17.200	17.299	BBA	95523	1236772	90.00%	5.542%
17	18.145	18.077	18.192	BB	99085	1343777	97.79%	6.022%
18	18.981	18.920	19.032	BB	95776	1374204	100.00%	6.158%
19	19.765	19.720	19.799	BBA	84124	1156477	84.16%	5.182%
20	20.507	20.450	20.549	BBA	66647	919020	66.88%	4.118%
21	21.262	21.210	21.328	BB	41776	747858	54.42%	3.351%
22	22.209	22.123	22.287	BB	26317	655889	47.73%	2.939%
Sum of corrected areas:							22316018	

Aliphatic EPH 103025.M Thu Oct 30 12:59:22 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056580.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 12:51
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 30 13:21:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.979	3698663	17.704 ug/ml
Spiked Amount 50.000		Recovery =	35.41%
12) S 1-chlorooctadecane (S...	13.417	2853138	17.708 ug/ml
Spiked Amount 50.000		Recovery =	35.42%
Target Compounds			
1) T n-Nonane (C9)	3.331	2974720	17.711 ug/ml
2) T n-Decane (C10)	4.584	3032863	17.675 ug/ml
3) T A~Naphthalene (C11.7)	6.301	3268504	17.707 ug/ml
4) T n-Dodecane (C12)	6.757	3080927	17.714 ug/ml
5) T A~2-methylnaphthalene...	7.401	3138399	17.709 ug/ml
6) T n-Tetradecane (C14)	8.592	3087511	17.688 ug/ml
7) T n-Hexadecane (C16)	10.206	3246411	17.744 ug/ml
8) T n-Octadecane (C18)	11.655	3352800	17.714 ug/ml
10) T n-Eicosane (C20)	12.969	3290342	17.656 ug/ml
11) T n-Heneicosane (C21)	13.583	3256292	17.709 ug/ml
13) T n-Docosane (C22)	14.171	3252345	17.374 ug/ml
14) T n-Tetracosane (C24)	15.279	3265557	16.673 ug/ml
15) T n-Hexacosane (C26)	16.303	3203978	16.487 ug/ml
16) T n-Octacosane (C28)	17.256	3101810	16.017 ug/ml
17) T n-Tricontane (C30)	18.145	3129479	15.609 ug/ml
18) T n-Dotriacontane (C32)	18.980	2966227	15.084 ug/ml
19) T n-Tetratriacontane (C34)	19.765	2678828	15.520 ug/ml
20) T n-Hexatriacontane (C36)	20.508	2321116	16.046 ug/ml
21) T n-Octatriacontane (C38)	21.262	2080984	16.534 ug/ml
22) T n-Tetracontane (C40)	22.209	1952947	16.892 ug/ml

(f)=RT Delta > 1/2 Window

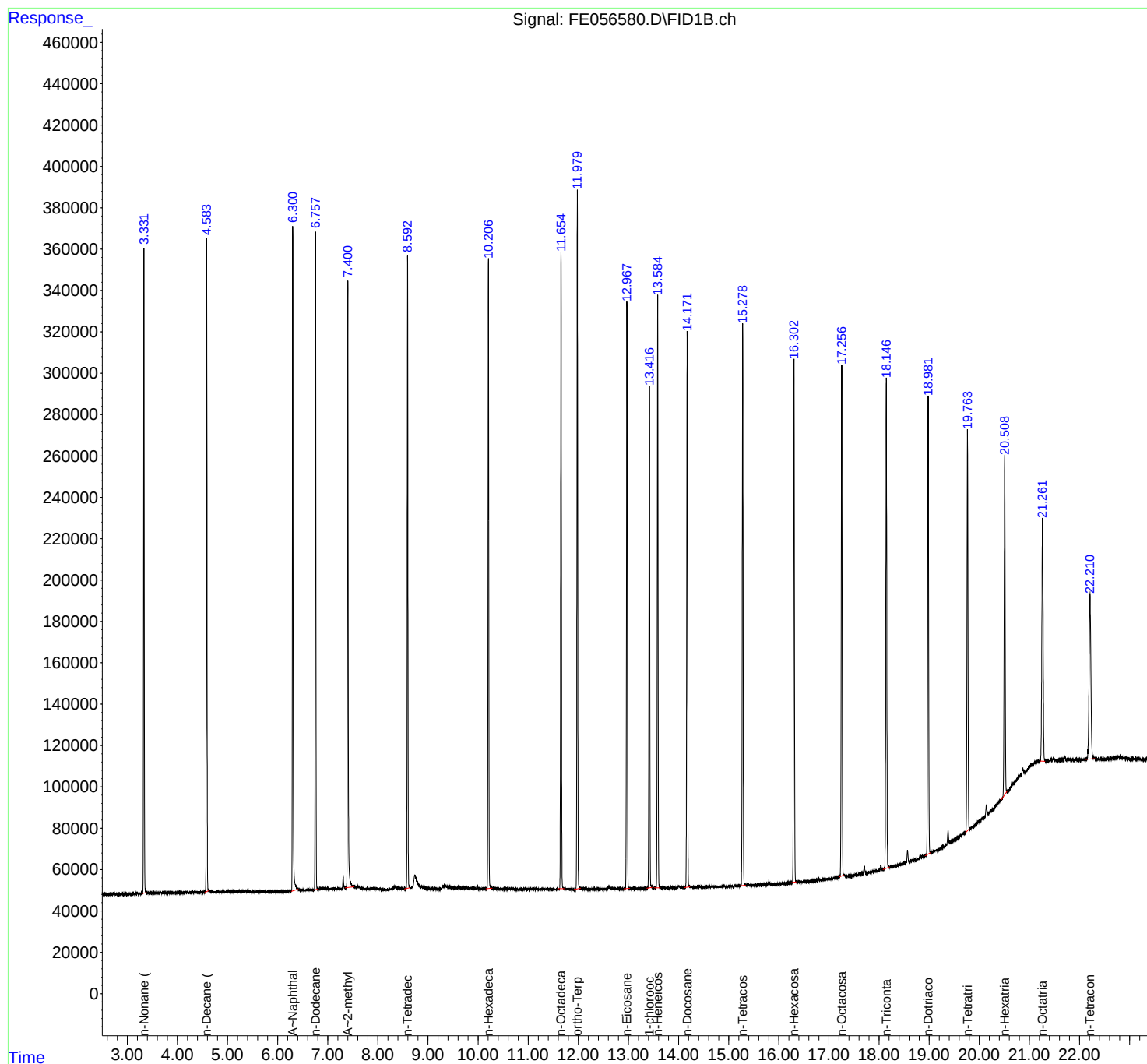
(m)=manual int.

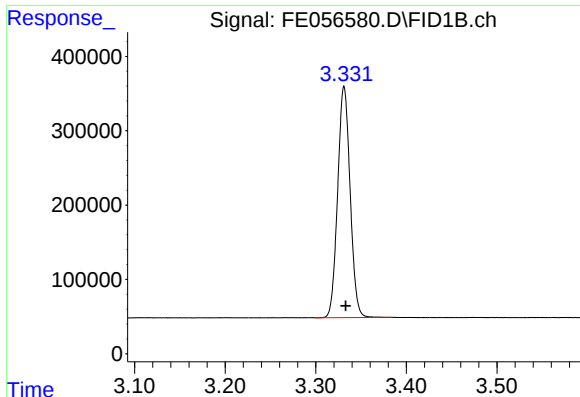
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056580.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 12:51
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 30 13:21:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

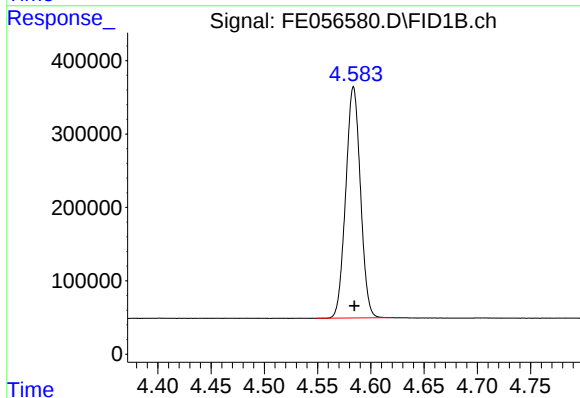
R.T.: 3.331 min
Delta R.T.: -0.002 min
Response: 2974720
Conc: 17.71 ug/ml

Instrument :

FID_E

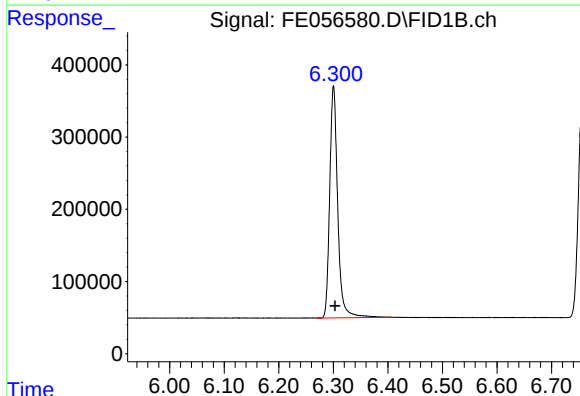
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



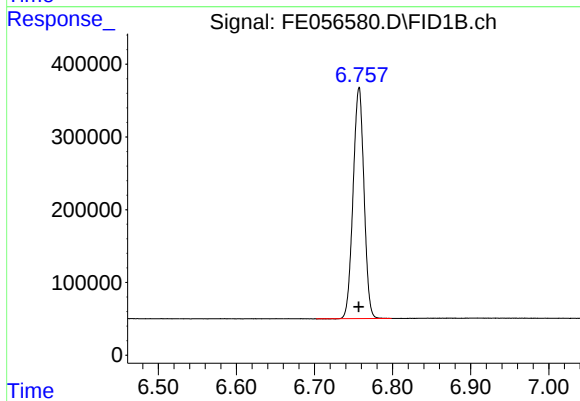
#2 n-Decane (C10)

R.T.: 4.584 min
Delta R.T.: 0.000 min
Response: 3032863
Conc: 17.67 ug/ml



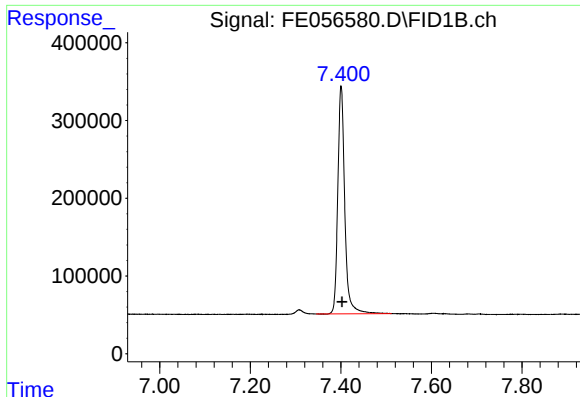
#3 A~Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: -0.003 min
Response: 3268504
Conc: 17.71 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 3080927
Conc: 17.71 ug/ml



#5 A~2-methylnaphthalene (C12.89)

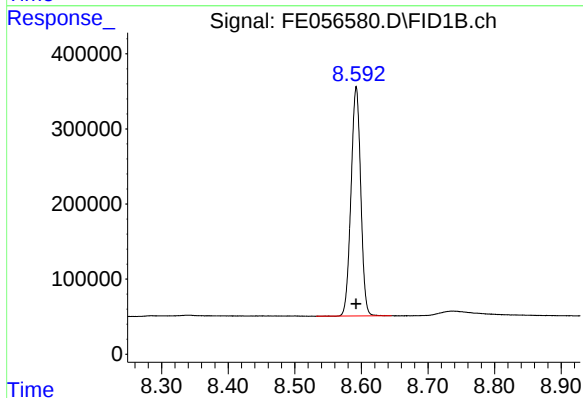
R.T.: 7.401 min
Delta R.T.: -0.002 min
Response: 3138399
Conc: 17.71 ug/ml

Instrument :

FID_E

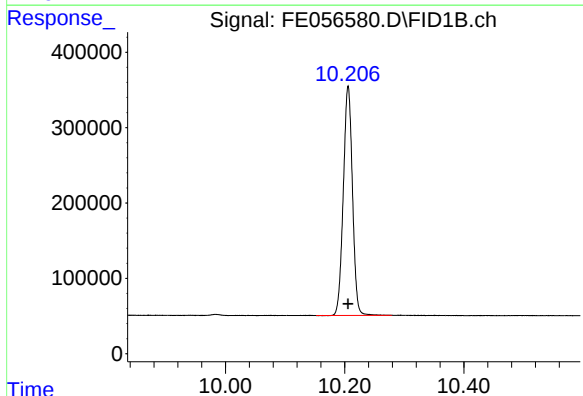
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



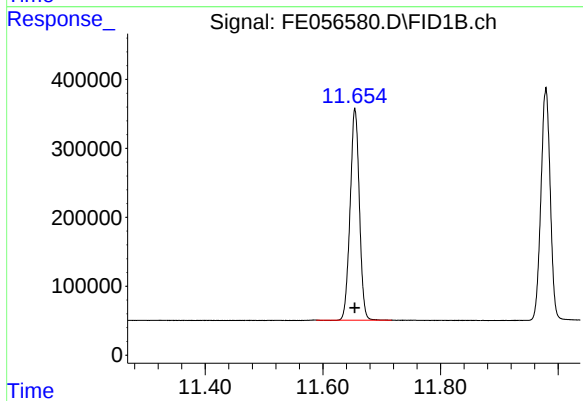
#6 n-Tetradecane (C14)

R.T.: 8.592 min
Delta R.T.: 0.000 min
Response: 3087511
Conc: 17.69 ug/ml



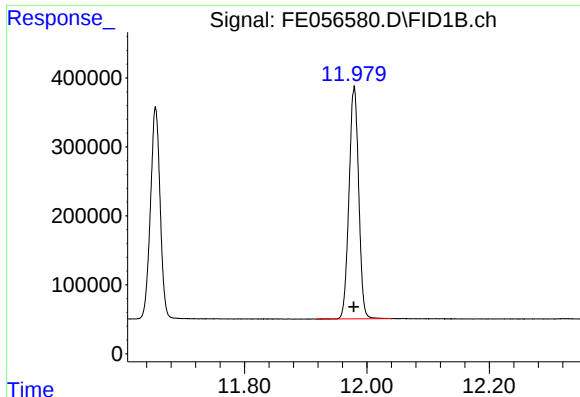
#7 n-Hexadecane (C16)

R.T.: 10.206 min
Delta R.T.: 0.000 min
Response: 3246411
Conc: 17.74 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.655 min
Delta R.T.: 0.000 min
Response: 3352800
Conc: 17.71 ug/ml



#9 ortho-Terphenyl (SURR)

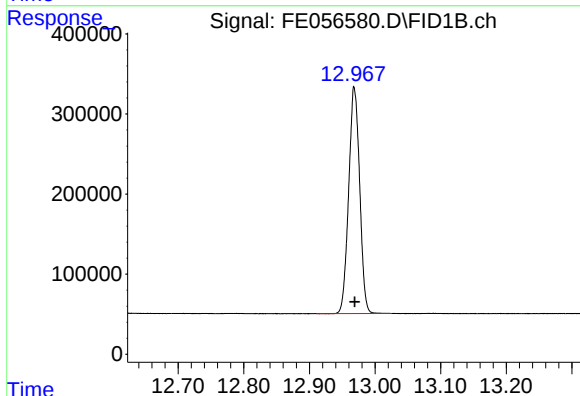
R.T.: 11.979 min
Delta R.T.: 0.000 min
Response: 3698663
Conc: 17.70 ug/ml

Instrument :

FID_E

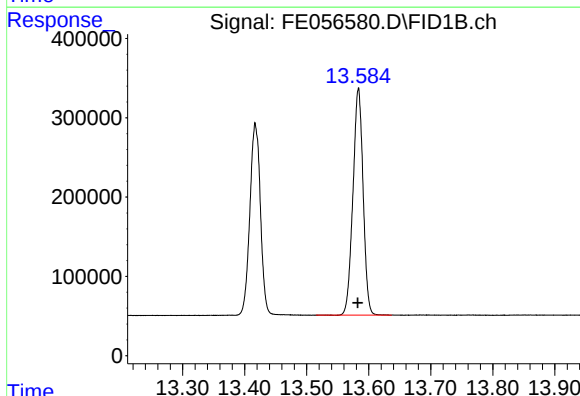
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



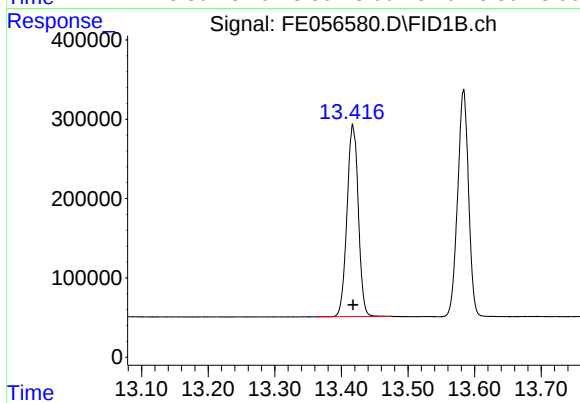
#10 n-Eicosane (C20)

R.T.: 12.969 min
Delta R.T.: 0.000 min
Response: 3290342
Conc: 17.66 ug/ml



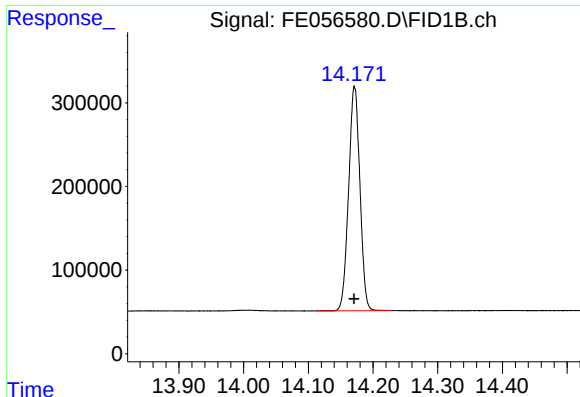
#11 n-Heneicosane (C21)

R.T.: 13.583 min
Delta R.T.: 0.001 min
Response: 3256292
Conc: 17.71 ug/ml



#12 1-chlorooctadecane (SURR)

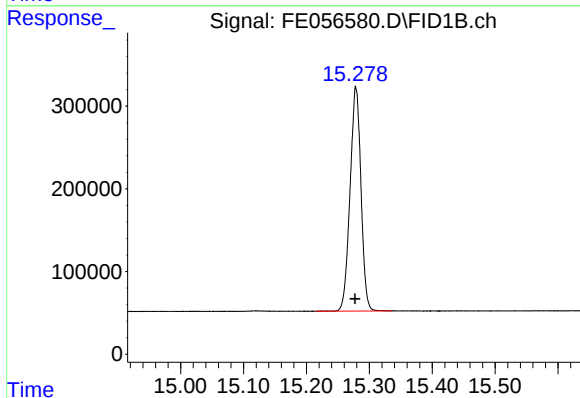
R.T.: 13.417 min
Delta R.T.: 0.000 min
Response: 2853138
Conc: 17.71 ug/ml



#13 n-Docosane (C22)

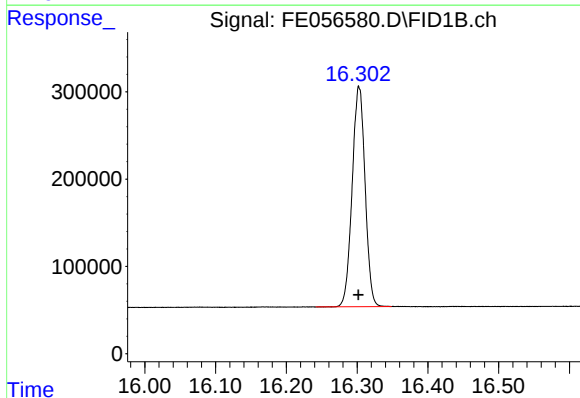
R.T.: 14.171 min
Delta R.T.: 0.000 min
Response: 3252345
Conc: 17.37 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



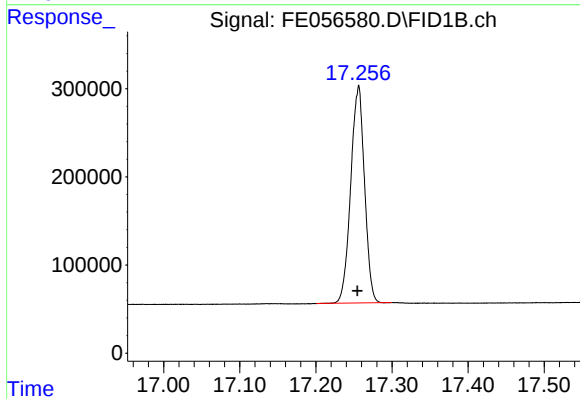
#14 n-Tetracosane (C24)

R.T.: 15.279 min
Delta R.T.: 0.001 min
Response: 3265557
Conc: 16.67 ug/ml



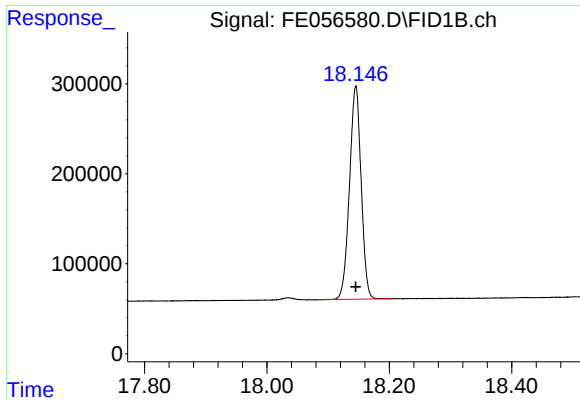
#15 n-Hexacosane (C26)

R.T.: 16.303 min
Delta R.T.: 0.000 min
Response: 3203978
Conc: 16.49 ug/ml



#16 n-Octacosane (C28)

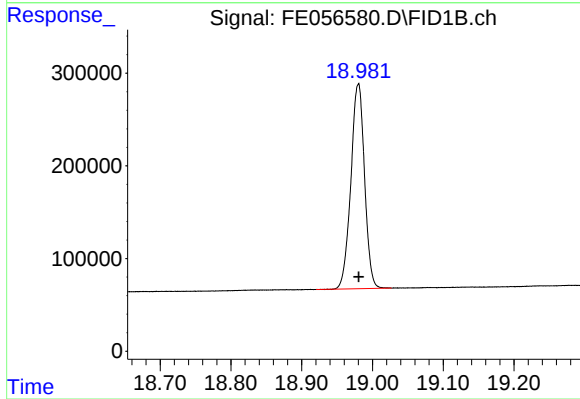
R.T.: 17.256 min
Delta R.T.: 0.001 min
Response: 3101810
Conc: 16.02 ug/ml



#17 n-Tricontane (C30)

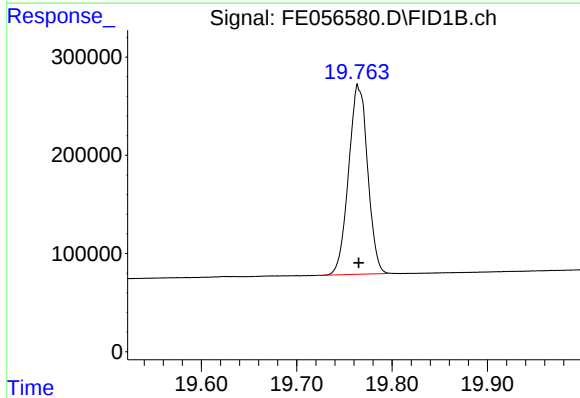
R.T.: 18.145 min
Delta R.T.: 0.000 min
Response: 3129479
Conc: 15.61 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



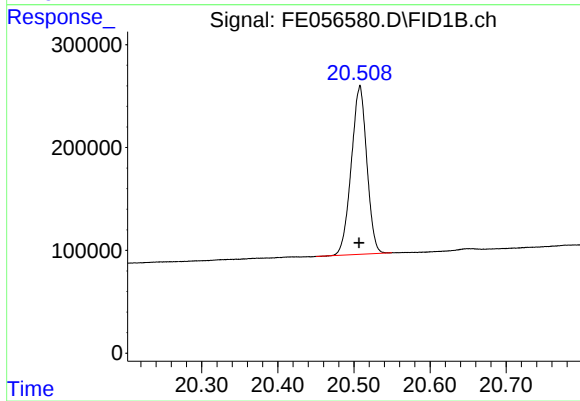
#18 n-Dotriacontane (C32)

R.T.: 18.980 min
Delta R.T.: 0.000 min
Response: 2966227
Conc: 15.08 ug/ml



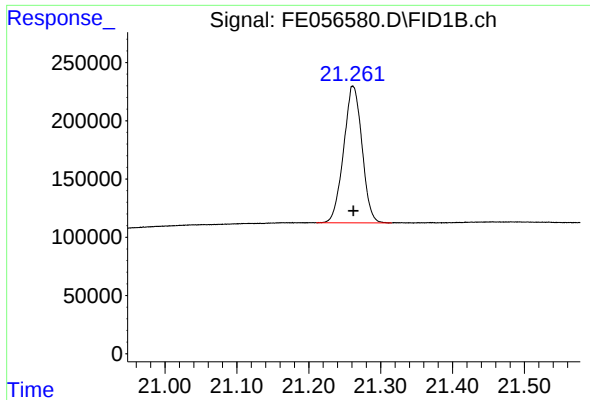
#19 n-Tetratriacontane (C34)

R.T.: 19.765 min
Delta R.T.: 0.000 min
Response: 2678828
Conc: 15.52 ug/ml



#20 n-Hexatriacontane (C36)

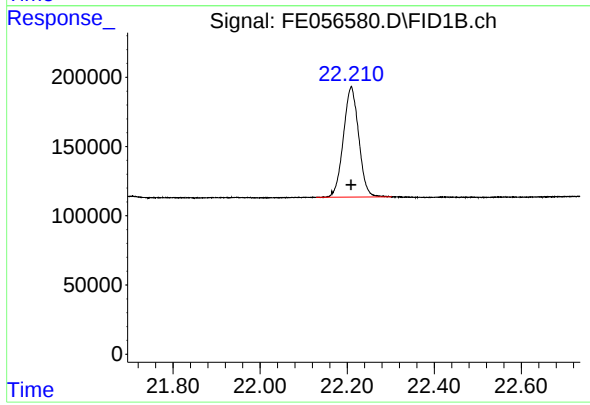
R.T.: 20.508 min
Delta R.T.: 0.000 min
Response: 2321116
Conc: 16.05 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 2080984
Conc: 16.53 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.209 min
Delta R.T.: 0.000 min
Response: 1952947
Conc: 16.89 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056580.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 12:51
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.331	3.300	3.384	BB	310481	2974720	80.43%	4.491%
2	4.584	4.549	4.620	BBA	315244	3032863	82.00%	4.579%
3	6.301	6.269	6.407	BB	321401	3268504	88.37%	4.935%
4	6.757	6.702	6.799	BB	318158	3080927	83.30%	4.652%
5	7.401	7.345	7.512	BB	293420	3138399	84.85%	4.738%
6	8.592	8.532	8.645	BB	305141	3087511	83.48%	4.662%
7	10.206	10.152	10.279	BB	304154	3246411	87.77%	4.901%
8	11.655	11.589	11.717	BB	305409	3352800	90.65%	5.062%
9	11.979	11.917	12.040	BB	334249	3698663	100.00%	5.584%
10	12.969	12.910	13.025	BB	280820	3290342	88.96%	4.968%
11	13.417	13.362	13.475	BB	241413	2853138	77.14%	4.308%
12	13.583	13.515	13.637	BB	286535	3256292	88.04%	4.916%
13	14.171	14.112	14.229	BB	266967	3252345	87.93%	4.910%
14	15.279	15.215	15.335	BB	270242	3265557	88.29%	4.930%
15	16.303	16.242	16.349	BB	253168	3203978	86.63%	4.837%
16	17.256	17.200	17.300	BBA	243564	3101810	83.86%	4.683%
17	18.145	18.080	18.204	BB	236990	3129479	84.61%	4.725%
18	18.980	18.920	19.027	BB	221501	2966227	80.20%	4.478%
19	19.765	19.720	19.800	BBA	187610	2678828	72.43%	4.044%
20	20.508	20.450	20.550	BBA	162660	2321116	62.76%	3.504%
21	21.262	21.210	21.315	BB	117144	2080984	56.26%	3.142%
22	22.209	22.129	22.302	BB	79731	1952947	52.80%	2.949%
Sum of corrected areas:							66233841	

Aliphatic EPH 103025.M Thu Oct 30 13:22:51 2025

Initial Calibration Report for SequenceID : FG102925AL

AreaCount

Parameter Range	FG016852.D	FG016848.D	FG016849.D	FG016850.D	FG016851.D	
Aliphatic C9-C12	34262467.000	18492584.000	7254295.000	3738287.000	1905143.000	
Aliphatic C12-C16	23563142.000	12790679.000	4920528.000	2484208.000	1213101.000	
Aliphatic C16-C21	36760469.000	20195600.000	7804680.000	4060755.000	2090588.000	
Aliphatic C21-C28	48743388.000	27416427.000	10278435.000	5677486.000	3316302.000	
Aliphatic C28-C40	57463919.000	32655580.000	12432103.000	7187522.000	4228641.000	
Aliphatic EPH	200793385.000	111550870.000	42690041.000	23148258.000	12753775.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	122003.2266662	4.004				
Aliphatic C12-C16	122851.24	3.023				
Aliphatic C16-C21	132396.2526664	4.852				
Aliphatic C21-C28	139034.6585	12.12				
Aliphatic C28-C40	113794.5446664	15.39				
Aliphatic EPH	124878.1566664	9.088				

Concentration

Parameter Range	FG016852.D	FG016848.D	FG016849.D	FG016850.D	FG016851.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FG016852.D	FG016848.D	FG016849.D	FG016850.D	FG016851.D	
Aliphatic C9-C12	114208.223333	123283.893333	120904.916666	124609.566666	127009.533333	
Aliphatic C12-C16	117815.710000	127906.790000	123013.200000	124210.400000	121310.100000	
Aliphatic C16-C21	122534.896666	134637.333333	130078.000000	135358.500000	139372.533333	

Initial Calibration Report for SequenceID : FG102925AL

Aliphatic C21-C28	121858.470000	137082.135000	128480.437500	141937.150000	165815.100000	
Aliphatic C28-C40	95773.198333	108851.933333	103600.858333	119792.033333	140954.700000	
Aliphatic EPH	111551.880555	123945.411111	118583.447222	128601.433333	141708.611111	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016848.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 14:35
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 29 16:04:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 15:59:42 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.044	7531998	47.583 ug/ml
Spiked Amount 50.000		Recovery =	95.17%
12) S 1-chlorooctadecane (S...	13.489	5878008	48.019 ug/ml
Spiked Amount 50.000		Recovery =	96.04%
Target Compounds			
1) T n-Nonane (C9)	3.366	6042983	48.496 ug/ml
2) T n-Decane (C10)	4.627	6178483	47.723 ug/ml
3) T A~Naphthalene (C11.7)	6.345	6612393	48.051 ug/ml
4) T n-Dodecane (C12)	6.808	6271118	47.281 ug/ml
5) T A~2-methylnaphthalene...	7.449	6282755	47.791 ug/ml
6) T n-Tetradecane (C14)	8.648	6252076	47.392 ug/ml
7) T n-Hexadecane (C16)	10.267	6538603	47.536 ug/ml
8) T n-Octadecane (C18)	11.721	6790694	47.661 ug/ml
10) T n-Eicosane (C20)	13.040	6721621	47.882 ug/ml
11) T n-Heneicosane (C21)	13.656	6683285	47.957 ug/ml
13) T n-Docosane (C22)	14.246	6759846	48.277 ug/ml
14) T n-Tetracosane (C24)	15.358	6933085	48.923 ug/ml
15) T n-Hexacosane (C26)	16.386	6894790	49.104 ug/ml
16) T n-Octacosane (C28)	17.341	6828706	49.402 ug/ml
17) T n-Tricontane (C30)	18.234	6876786	49.224 ug/ml
18) T n-Dotriacontane (C32)	19.071	6568252	49.320 ug/ml
19) T n-Tetratriacontane (C34)	19.861	5868504	49.848 ug/ml
20) T n-Hexatriacontane (C36)	20.603	4926509	51.501 ug/ml
21) T n-Octatriacontane (C38)	21.381	4376085	53.713 ug/ml
22) T n-Tetracontane (C40)	22.364	4039444	55.069 ug/ml

(f)=RT Delta > 1/2 Window

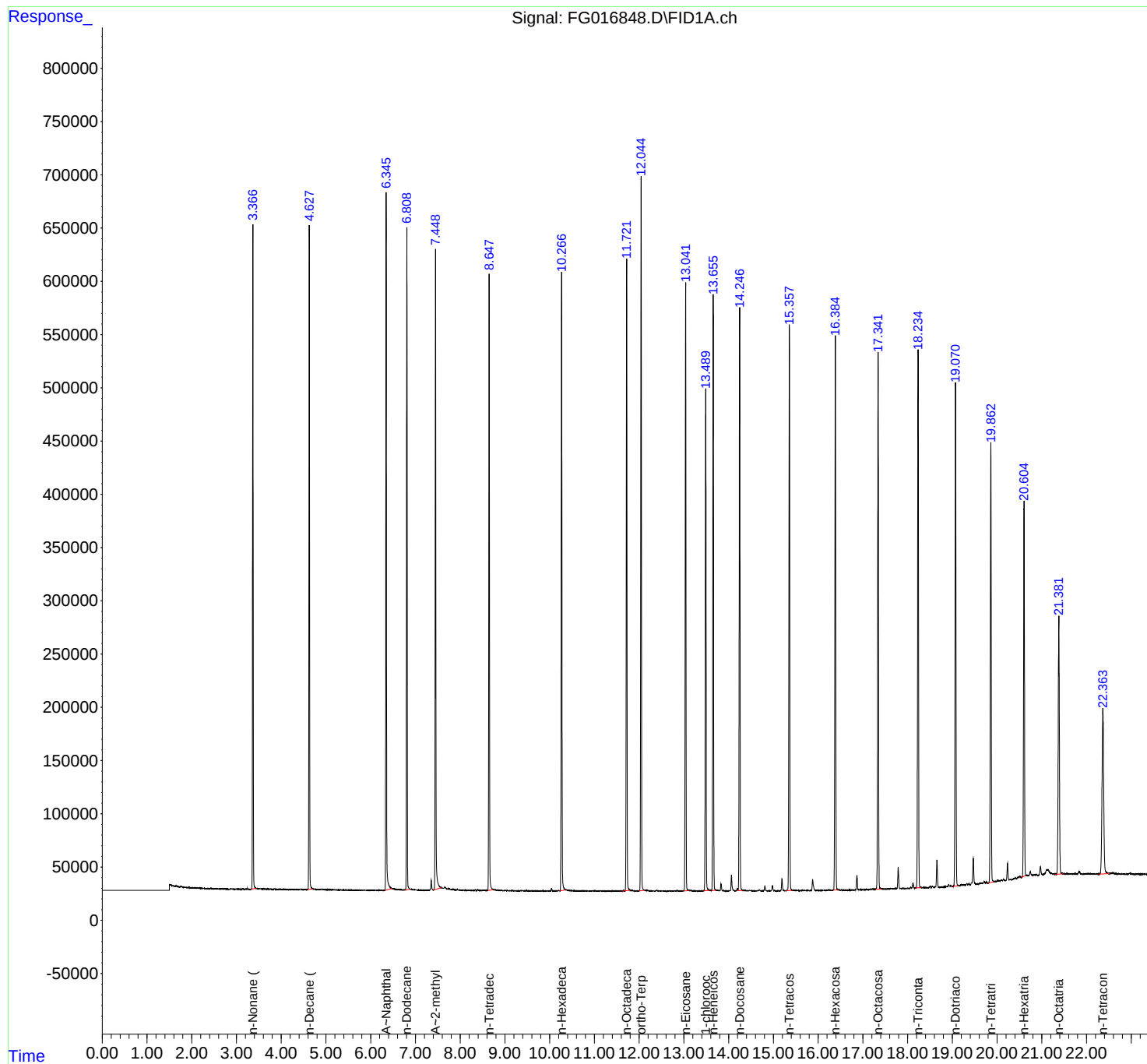
(m)=manual int.

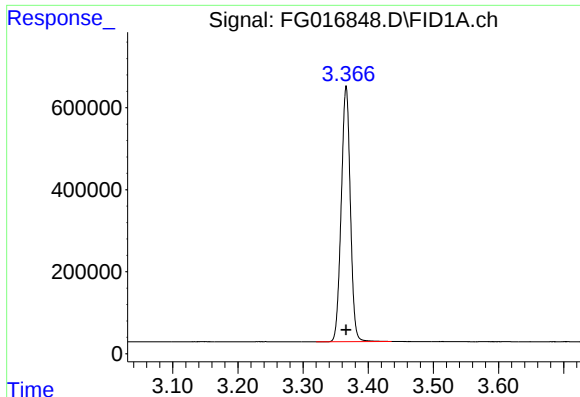
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016848.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 14:35
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 29 16:04:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 15:59:42 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

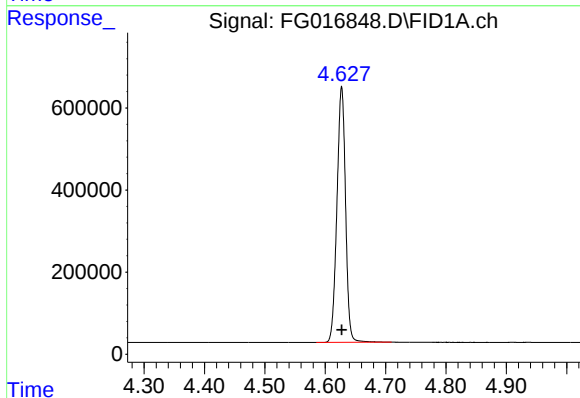




#1 n-Nonane (C9)

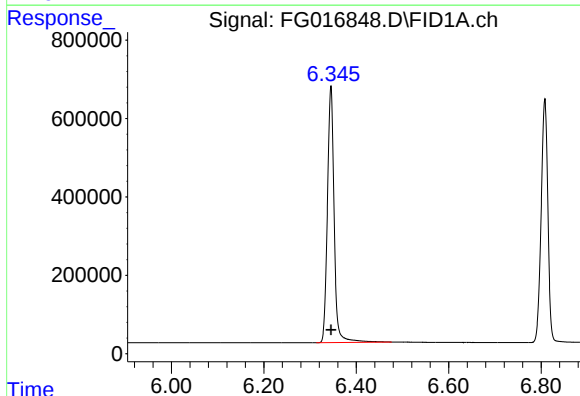
R.T.: 3.366 min
Delta R.T.: 0.000 min
Response: 6042983
Conc: 48.50 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



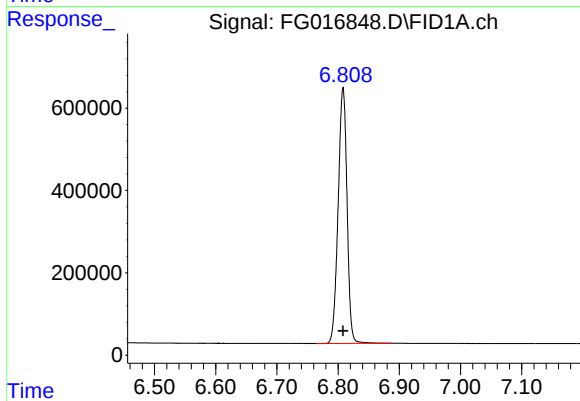
#2 n-Decane (C10)

R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 6178483
Conc: 47.72 ug/ml



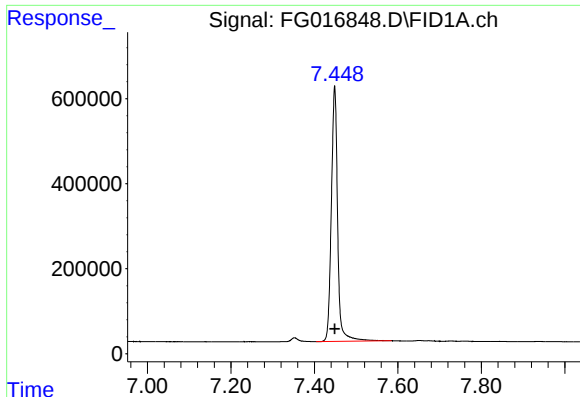
#3 A~Naphthalene (C11.7)

R.T.: 6.345 min
Delta R.T.: 0.000 min
Response: 6612393
Conc: 48.05 ug/ml



#4 n-Dodecane (C12)

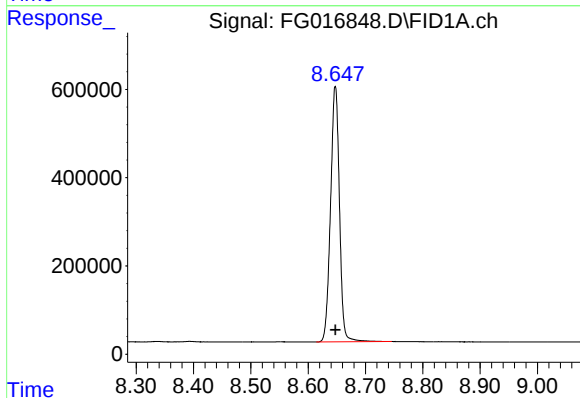
R.T.: 6.808 min
Delta R.T.: 0.000 min
Response: 6271118
Conc: 47.28 ug/ml



#5 A~2-methylnaphthalene (C12.89)

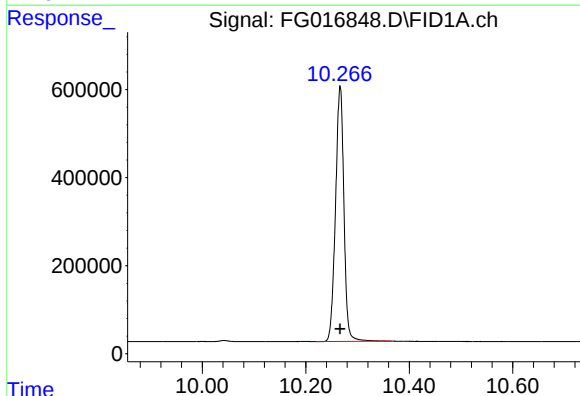
R.T.: 7.449 min
Delta R.T.: 0.000 min
Response: 6282755
Conc: 47.79 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



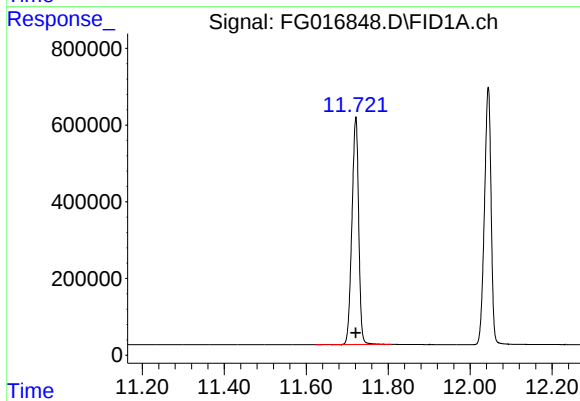
#6 n-Tetradecane (C14)

R.T.: 8.648 min
Delta R.T.: 0.000 min
Response: 6252076
Conc: 47.39 ug/ml



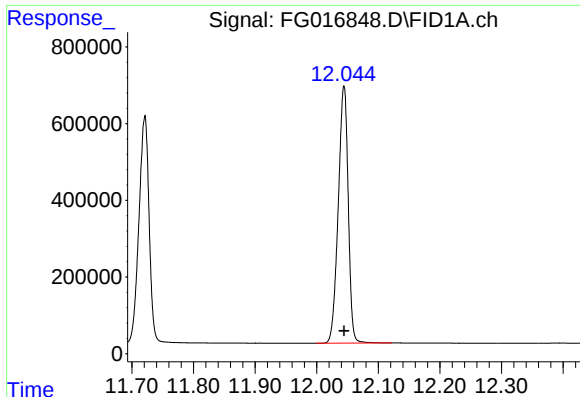
#7 n-Hexadecane (C16)

R.T.: 10.267 min
Delta R.T.: 0.000 min
Response: 6538603
Conc: 47.54 ug/ml



#8 n-Octadecane (C18)

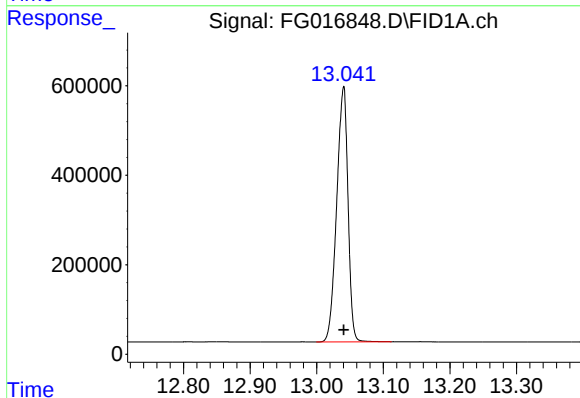
R.T.: 11.721 min
Delta R.T.: 0.000 min
Response: 6790694
Conc: 47.66 ug/ml



#9 ortho-Terphenyl (SURR)

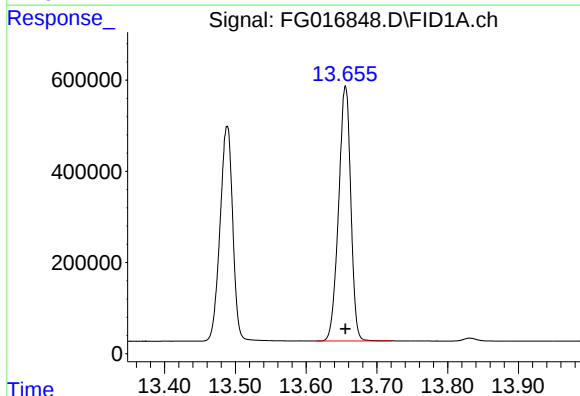
R.T.: 12.044 min
Delta R.T.: 0.000 min
Response: 7531998
Conc: 47.58 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



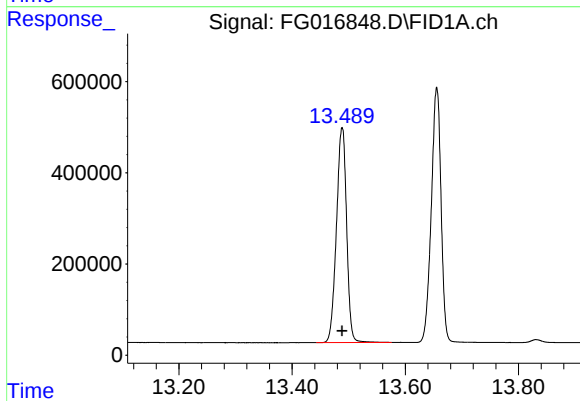
#10 n-Eicosane (C20)

R.T.: 13.040 min
Delta R.T.: 0.000 min
Response: 6721621
Conc: 47.88 ug/ml



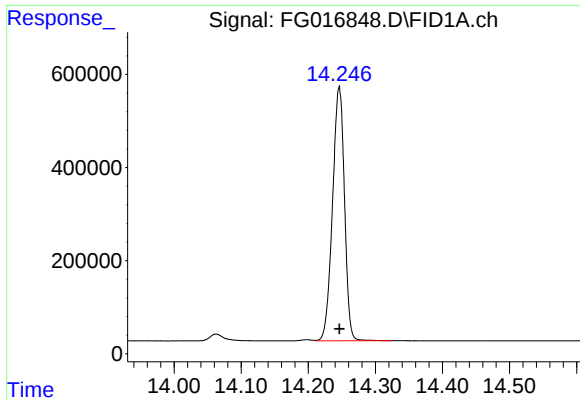
#11 n-Heneicosane (C21)

R.T.: 13.656 min
Delta R.T.: 0.000 min
Response: 6683285
Conc: 47.96 ug/ml



#12 1-chlorooctadecane (SURR)

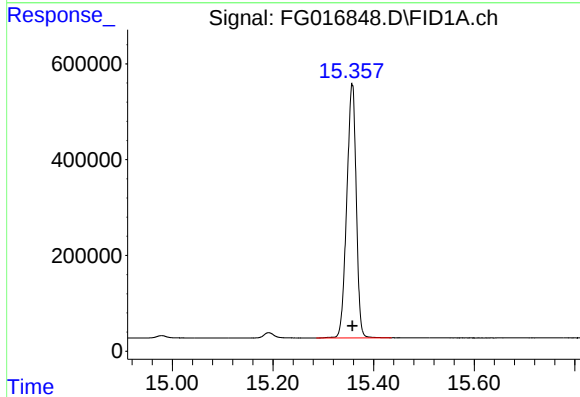
R.T.: 13.489 min
Delta R.T.: 0.000 min
Response: 5878008
Conc: 48.02 ug/ml



#13 n-Docosane (C22)

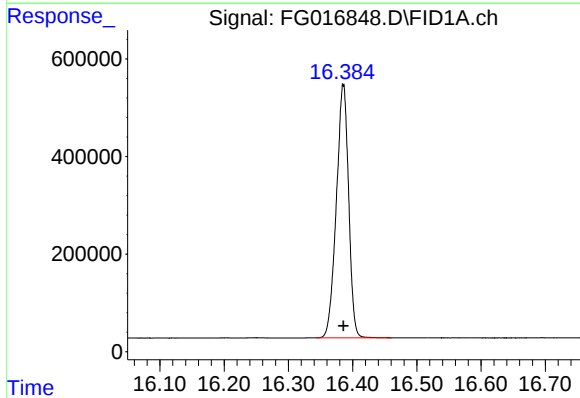
R.T.: 14.246 min
Delta R.T.: 0.000 min
Response: 6759846
Conc: 48.28 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



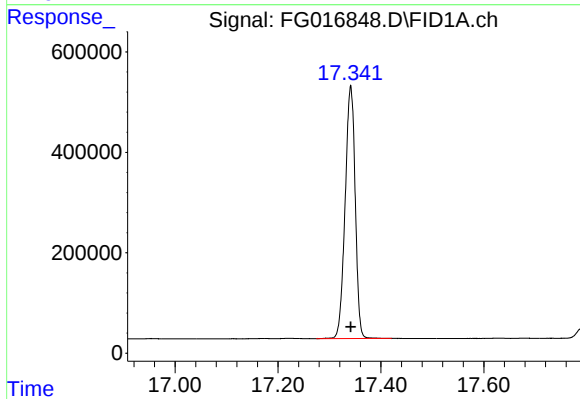
#14 n-Tetracosane (C24)

R.T.: 15.358 min
Delta R.T.: 0.000 min
Response: 6933085
Conc: 48.92 ug/ml



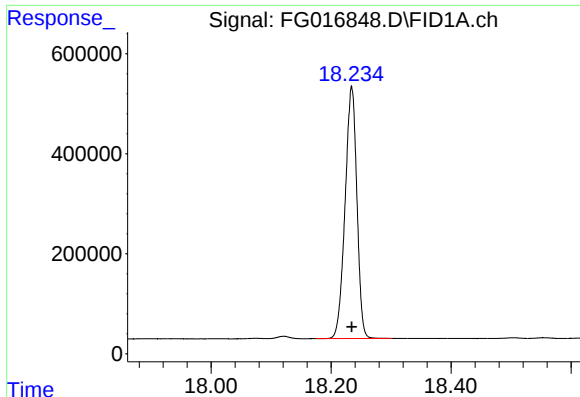
#15 n-Hexacosane (C26)

R.T.: 16.386 min
Delta R.T.: 0.000 min
Response: 6894790
Conc: 49.10 ug/ml



#16 n-Octacosane (C28)

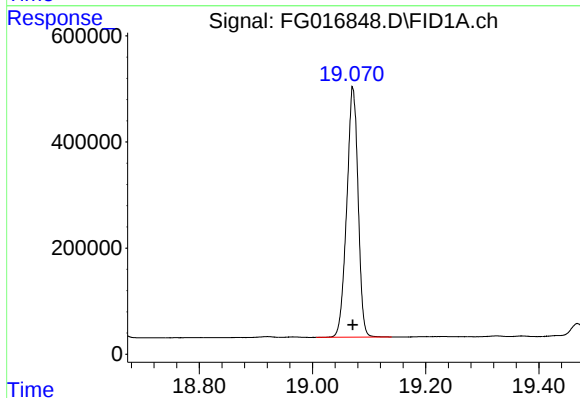
R.T.: 17.341 min
Delta R.T.: 0.000 min
Response: 6828706
Conc: 49.40 ug/ml



#17 n-Tricontane (C30)

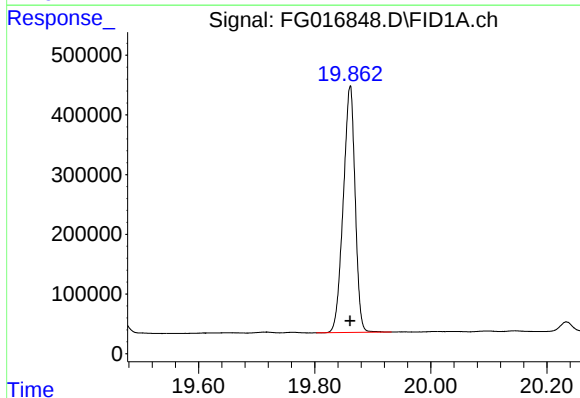
R.T.: 18.234 min
Delta R.T.: 0.000 min
Response: 6876786
Conc: 49.22 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



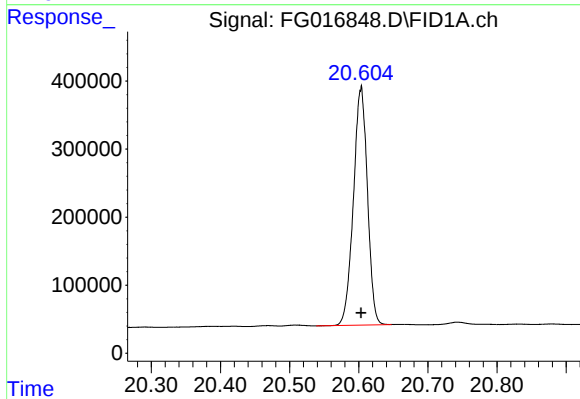
#18 n-Dotriacontane (C32)

R.T.: 19.071 min
Delta R.T.: 0.000 min
Response: 6568252
Conc: 49.32 ug/ml



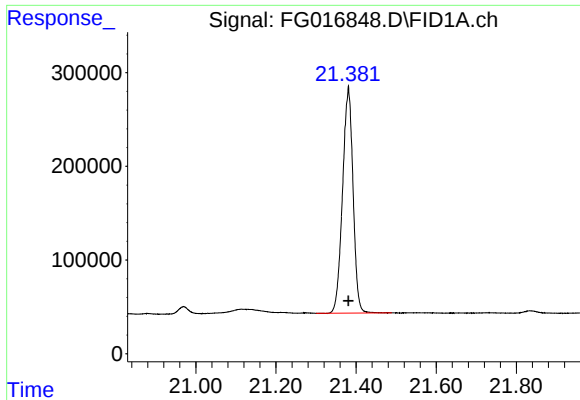
#19 n-Tetratriacontane (C34)

R.T.: 19.861 min
Delta R.T.: 0.000 min
Response: 5868504
Conc: 49.85 ug/ml



#20 n-Hexatriacontane (C36)

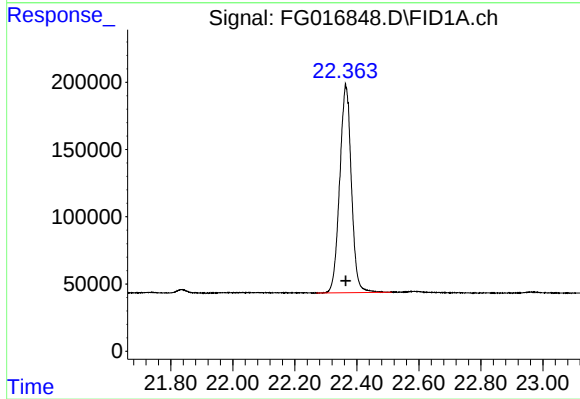
R.T.: 20.603 min
Delta R.T.: 0.000 min
Response: 4926509
Conc: 51.50 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.381 min
Delta R.T.: 0.000 min
Response: 4376085
Conc: 53.71 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.364 min
Delta R.T.: 0.000 min
Response: 4039444
Conc: 55.07 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016848.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 14:35
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.366	3.320	3.436	BB	623325	6042983	80.23%	4.384%
2	4.627	4.585	4.710	BB	623436	6178483	82.03%	4.482%
3	6.345	6.313	6.477	BB	654988	6612393	87.79%	4.797%
4	6.808	6.764	6.888	BB	621916	6271118	83.26%	4.549%
5	7.449	7.404	7.585	BB	601134	6282755	83.41%	4.557%
6	8.648	8.614	8.746	BB	578718	6252076	83.01%	4.535%
7	10.267	10.220	10.366	BB	579308	6538603	86.81%	4.743%
8	11.721	11.624	11.808	BB	591140	6790694	90.16%	4.926%
9	12.044	11.999	12.122	BB	670846	7531998	100.00%	5.464%
10	13.040	12.999	13.113	BB	571889	6721621	89.24%	4.876%
11	13.489	13.443	13.576	BB	470465	5878008	78.04%	4.264%
12	13.656	13.614	13.721	BB	559258	6683285	88.73%	4.848%
13	14.246	14.212	14.324	VB	544753	6759846	89.75%	4.904%
14	15.358	15.286	15.436	BB	528715	6933085	92.05%	5.029%
15	16.386	16.343	16.461	BB	515581	6894790	91.54%	5.001%
16	17.341	17.274	17.421	BB	504682	6828706	90.66%	4.954%
17	18.234	18.175	18.301	BB	504187	6876786	91.30%	4.988%
18	19.071	19.007	19.140	BB	470108	6568252	87.20%	4.765%
19	19.861	19.803	19.933	BB	412300	5868504	77.91%	4.257%
20	20.603	20.538	20.648	BB	348001	4926509	65.41%	3.574%
21	21.381	21.300	21.489	BB	240649	4376085	58.10%	3.174%
22	22.364	22.269	22.512	BB	155118	4039444	53.63%	2.930%
Sum of corrected areas:						137856024		

Aliphatic EPH 102925.M Thu Oct 30 04:23:48 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016849.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 15:04
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 29 15:59:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 15:59:42 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.040	2941633	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.485	2246048	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.366	2372266	20.000 ug/ml
2) T n-Decane (C10)	4.626	2424932	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.344	2492344	20.000 ug/ml
4) T n-Dodecane (C12)	6.806	2457097	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.447	2312070	20.000 ug/ml
6) T n-Tetradecane (C14)	8.646	2412151	20.000 ug/ml
7) T n-Hexadecane (C16)	10.263	2508377	20.000 ug/ml
8) T n-Octadecane (C18)	11.717	2624333	20.000 ug/ml
10) T n-Eicosane (C20)	13.036	2598091	20.000 ug/ml
11) T n-Heneicosane (C21)	13.652	2582256	20.000 ug/ml
13) T n-Docosane (C22)	14.242	2582634	20.000 ug/ml
14) T n-Tetracosane (C24)	15.354	2595371	20.000 ug/ml
15) T n-Hexacosane (C26)	16.382	2571602	20.000 ug/ml
16) T n-Octacosane (C28)	17.339	2528828	20.000 ug/ml
17) T n-Tricontane (C30)	18.233	2587123	20.000 ug/ml
18) T n-Dotriacontane (C32)	19.069	2492426	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.858	2248838	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.602	1908352	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.379	1678792	20.000 ug/ml
22) T n-Tetracontane (C40)	22.363	1516572	20.000 ug/ml

(f)=RT Delta > 1/2 Window

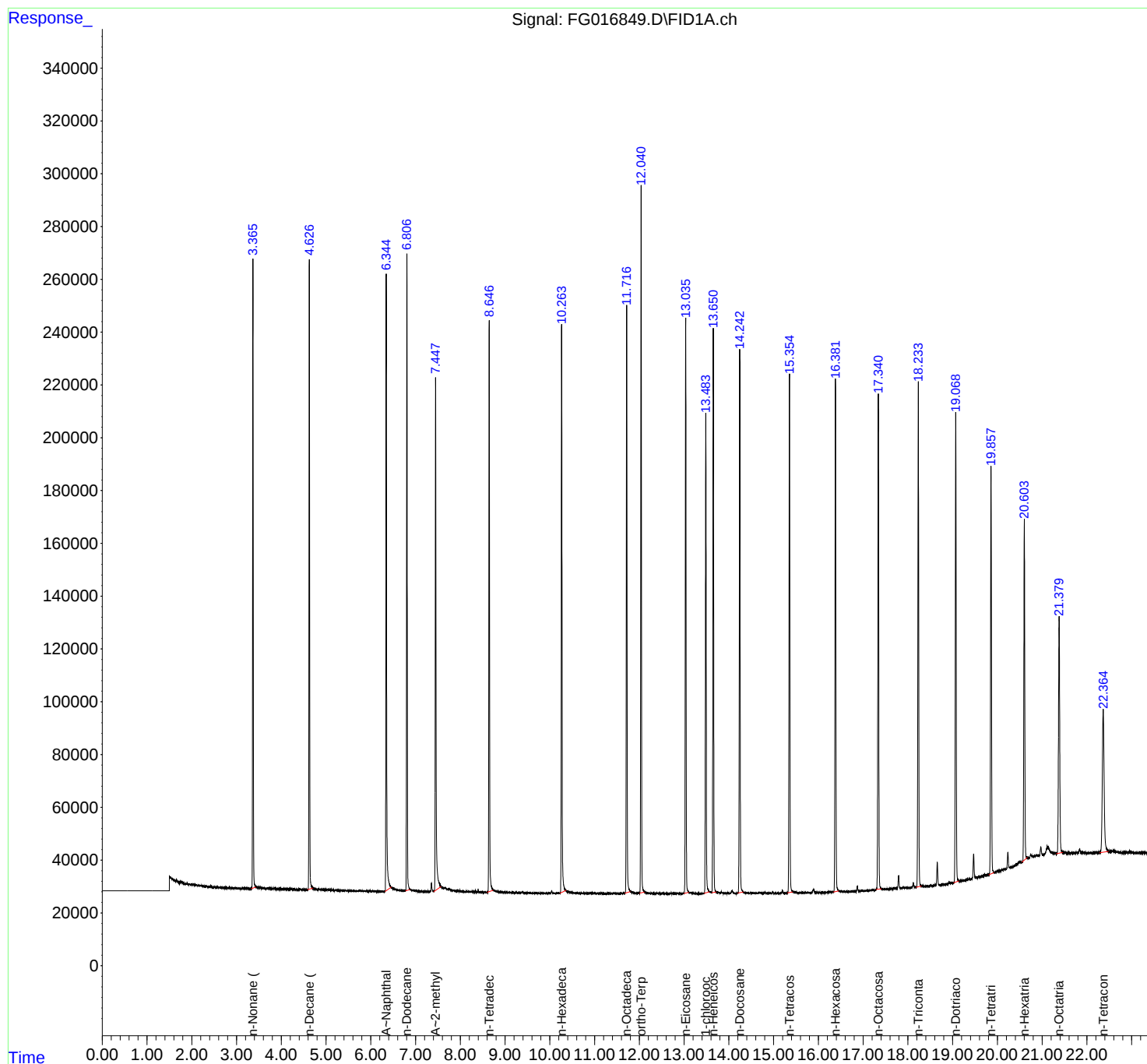
(m)=manual int.

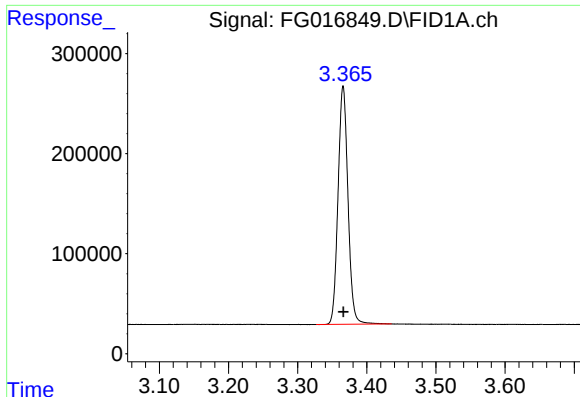
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016849.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 15:04
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 29 15:59:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 15:59:42 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

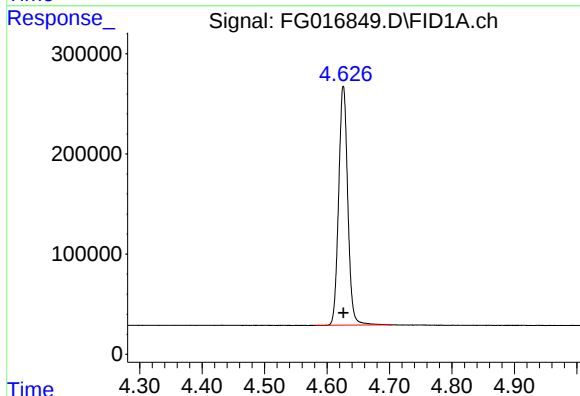




#1 n-Nonane (C9)

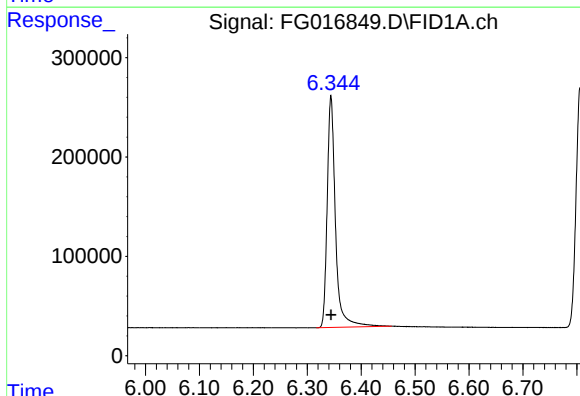
R.T.: 3.366 min
Delta R.T.: 0.000 min
Response: 2372266
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



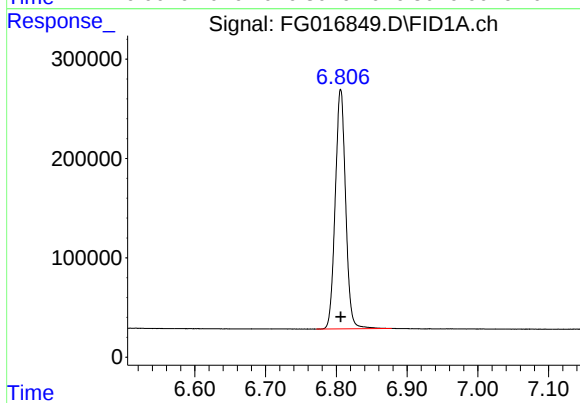
#2 n-Decane (C10)

R.T.: 4.626 min
Delta R.T.: 0.000 min
Response: 2424932
Conc: 20.00 ug/ml



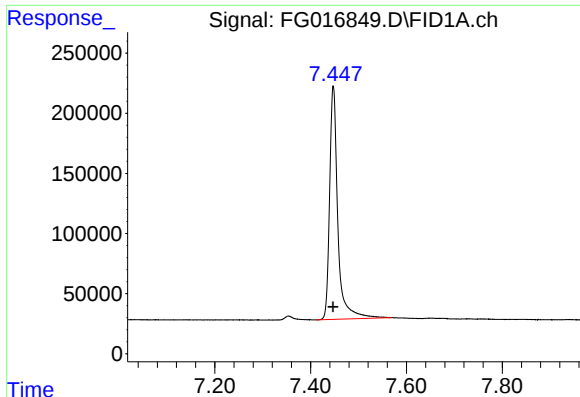
#3 A~Naphthalene (C11.7)

R.T.: 6.344 min
Delta R.T.: 0.000 min
Response: 2492344
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

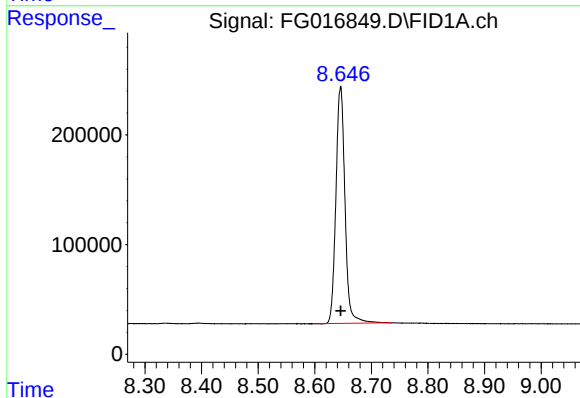
R.T.: 6.806 min
Delta R.T.: 0.000 min
Response: 2457097
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

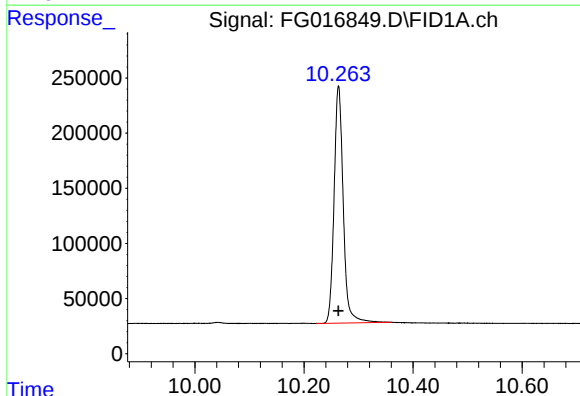
R.T.: 7.447 min
Delta R.T.: 0.000 min
Response: 2312070
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



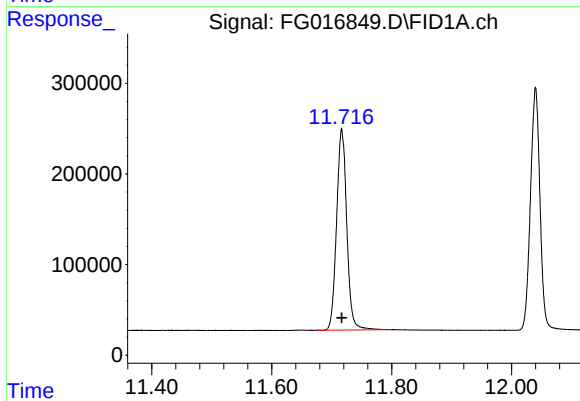
#6 n-Tetradecane (C14)

R.T.: 8.646 min
Delta R.T.: 0.000 min
Response: 2412151
Conc: 20.00 ug/ml



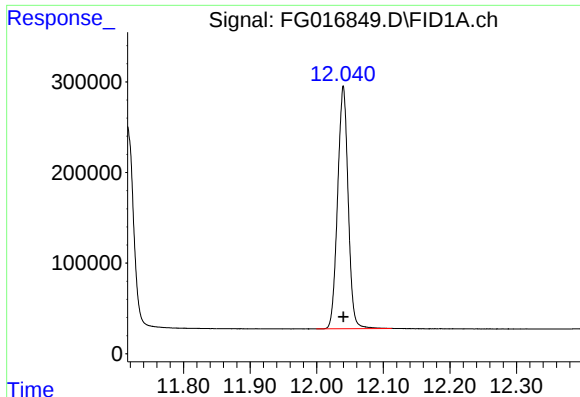
#7 n-Hexadecane (C16)

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 2508377
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

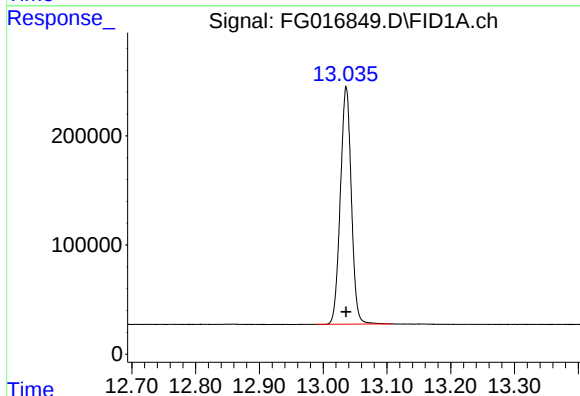
R.T.: 11.717 min
Delta R.T.: 0.000 min
Response: 2624333
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

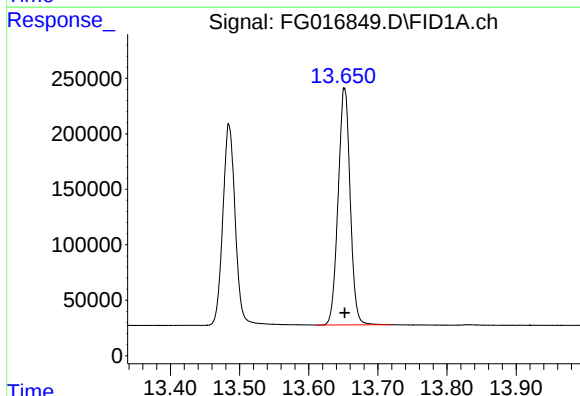
R.T.: 12.040 min
Delta R.T.: 0.000 min
Response: 2941633
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



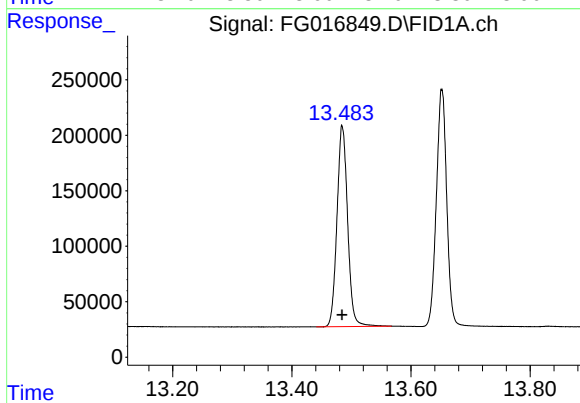
#10 n-Eicosane (C20)

R.T.: 13.036 min
Delta R.T.: 0.000 min
Response: 2598091
Conc: 20.00 ug/ml



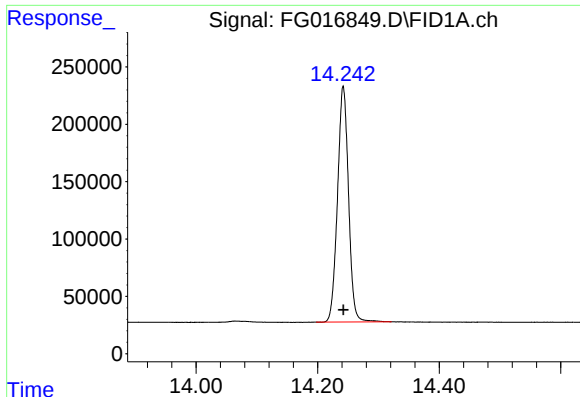
#11 n-Heneicosane (C21)

R.T.: 13.652 min
Delta R.T.: 0.000 min
Response: 2582256
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

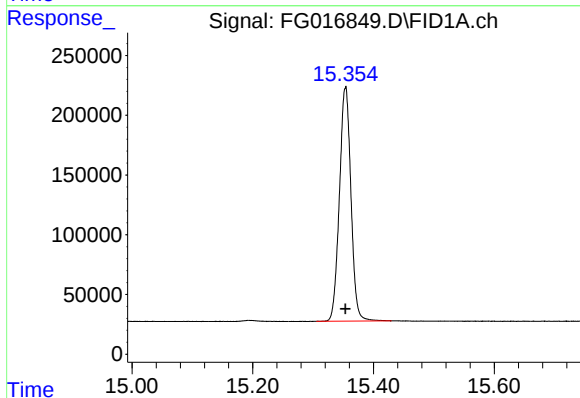
R.T.: 13.485 min
Delta R.T.: 0.000 min
Response: 2246048
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

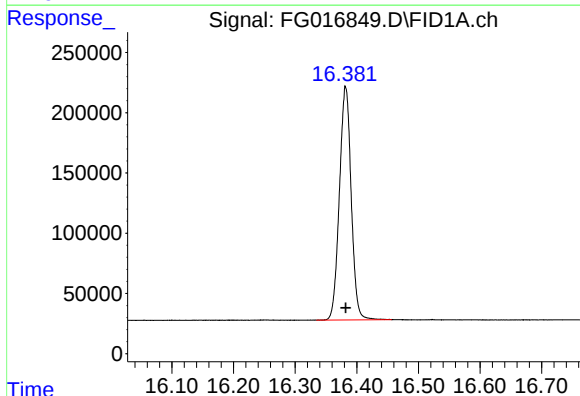
R.T.: 14.242 min
Delta R.T.: 0.000 min
Response: 2582634
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



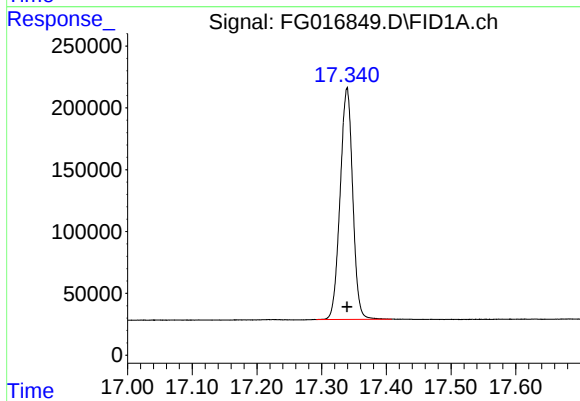
#14 n-Tetracosane (C24)

R.T.: 15.354 min
Delta R.T.: 0.000 min
Response: 2595371
Conc: 20.00 ug/ml



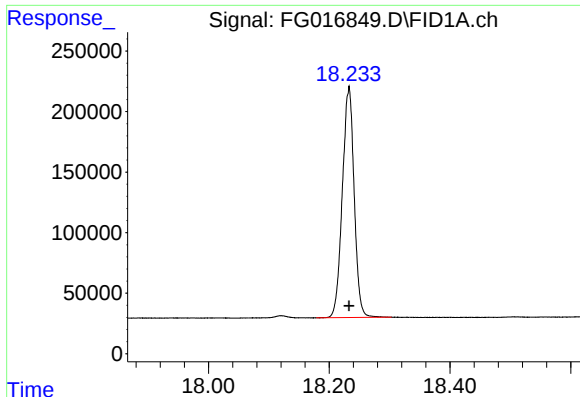
#15 n-Hexacosane (C26)

R.T.: 16.382 min
Delta R.T.: 0.000 min
Response: 2571602
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

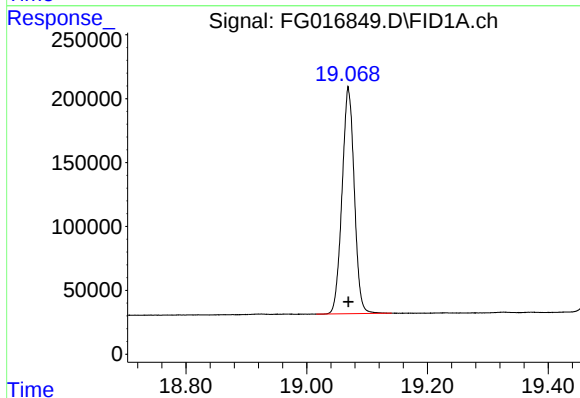
R.T.: 17.339 min
Delta R.T.: 0.000 min
Response: 2528828
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

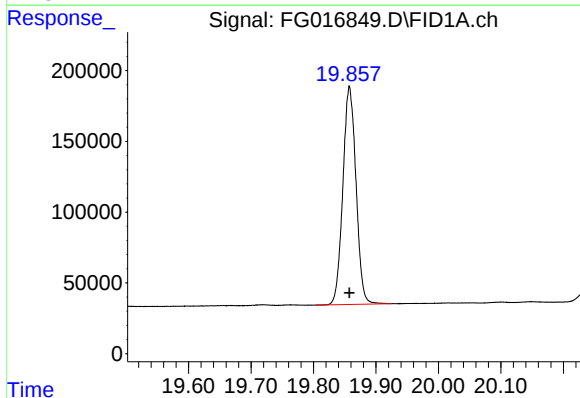
R.T.: 18.233 min
Delta R.T.: 0.000 min
Response: 2587123
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



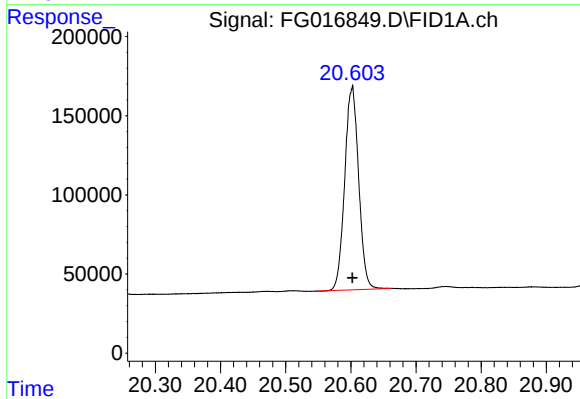
#18 n-Dotriacontane (C32)

R.T.: 19.069 min
Delta R.T.: 0.000 min
Response: 2492426
Conc: 20.00 ug/ml



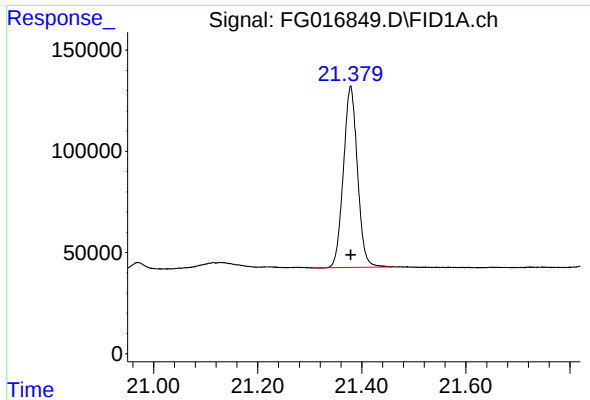
#19 n-Tetratriacontane (C34)

R.T.: 19.858 min
Delta R.T.: 0.000 min
Response: 2248838
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

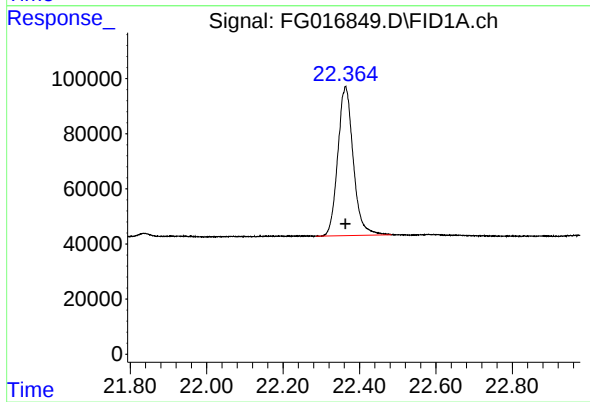
R.T.: 20.602 min
Delta R.T.: 0.000 min
Response: 1908352
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.379 min
Delta R.T.: 0.000 min
Response: 1678792
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.363 min
Delta R.T.: 0.000 min
Response: 1516572
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016849.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 15:04
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.366	3.327	3.436	BB	238274	2372266	80.64%	4.503%
2	4.626	4.583	4.703	BB	238637	2424932	82.43%	4.603%
3	6.344	6.317	6.457	BB	233236	2492344	84.73%	4.731%
4	6.806	6.772	6.878	BB	241132	2457097	83.53%	4.664%
5	7.447	7.412	7.569	BB	193856	2312070	78.60%	4.389%
6	8.646	8.603	8.736	BB	216212	2412151	82.00%	4.579%
7	10.263	10.223	10.361	BB	215133	2508377	85.27%	4.761%
8	11.717	11.674	11.800	BB	222275	2624333	89.21%	4.981%
9	12.040	11.999	12.113	BB	267964	2941633	100.00%	5.584%
10	13.036	12.989	13.108	BB	217473	2598091	88.32%	4.932%
11	13.485	13.441	13.568	BB	180339	2246048	76.35%	4.263%
12	13.652	13.611	13.720	BB	212743	2582256	87.78%	4.902%
13	14.242	14.198	14.322	BB	205649	2582634	87.80%	4.902%
14	15.354	15.305	15.430	BB	195159	2595371	88.23%	4.926%
15	16.382	16.334	16.457	BB	193497	2571602	87.42%	4.881%
16	17.339	17.292	17.408	BB	186749	2528828	85.97%	4.800%
17	18.233	18.178	18.303	BB	190216	2587123	87.95%	4.911%
18	19.069	19.016	19.141	BB	177059	2492426	84.73%	4.731%
19	19.858	19.804	19.925	BB	154267	2248838	76.45%	4.269%
20	20.602	20.547	20.663	BB	128551	1908352	64.87%	3.622%
21	21.379	21.313	21.458	BB	89639	1678792	57.07%	3.187%
22	22.364	22.287	22.484	BB	54089	1516572	51.56%	2.879%
Sum of corrected areas:							52682136	

Aliphatic EPH 102925.M Thu Oct 30 04:25:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016850.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 15:34
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 29 16:07:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 15:59:42 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.039	1540407	9.797 ug/ml
Spiked Amount 50.000		Recovery =	19.59%
12) S 1-chlorooctadecane (S...	13.484	1159523	9.599 ug/ml
Spiked Amount 50.000		Recovery =	19.20%
Target Compounds			
1) T n-Nonane (C9)	3.365	1227509	9.888 ug/ml
2) T n-Decane (C10)	4.625	1247197	9.722 ug/ml
3) T A~Naphthalene (C11.7)	6.344	1241007	9.245 ug/ml
4) T n-Dodecane (C12)	6.805	1263581	9.641 ug/ml
5) T A~2-methylnaphthalene...	7.448	1107098	8.767 ug/ml
6) T n-Tetradecane (C14)	8.645	1226376	9.463 ug/ml
7) T n-Hexadecane (C16)	10.264	1257832	9.344 ug/ml
8) T n-Octadecane (C18)	11.716	1342945	9.563 ug/ml
10) T n-Eicosane (C20)	13.035	1359854	9.763 ug/ml
11) T n-Heneicosane (C21)	13.650	1357956	9.807 ug/ml
13) T n-Docosane (C22)	14.242	1388013	9.935 ug/ml
14) T n-Tetracosane (C24)	15.353	1422731	10.030 ug/ml
15) T n-Hexacosane (C26)	16.382	1429320	10.134 ug/ml
16) T n-Octacosane (C28)	17.338	1437422	10.296 ug/ml
17) T n-Tricontane (C30)	18.231	1500914	10.548 ug/ml
18) T n-Dotriacontane (C32)	19.069	1477442	10.799 ug/ml
19) T n-Tetratriacontane (C34)	19.859	1305571	10.796 ug/ml
20) T n-Hexatriacontane (C36)	20.601	1079984	10.937 ug/ml
21) T n-Octatriacontane (C38)	21.379	965119	11.323 ug/ml
22) T n-Tetracontane (C40)	22.364	858492	11.226 ug/ml

(f)=RT Delta > 1/2 Window

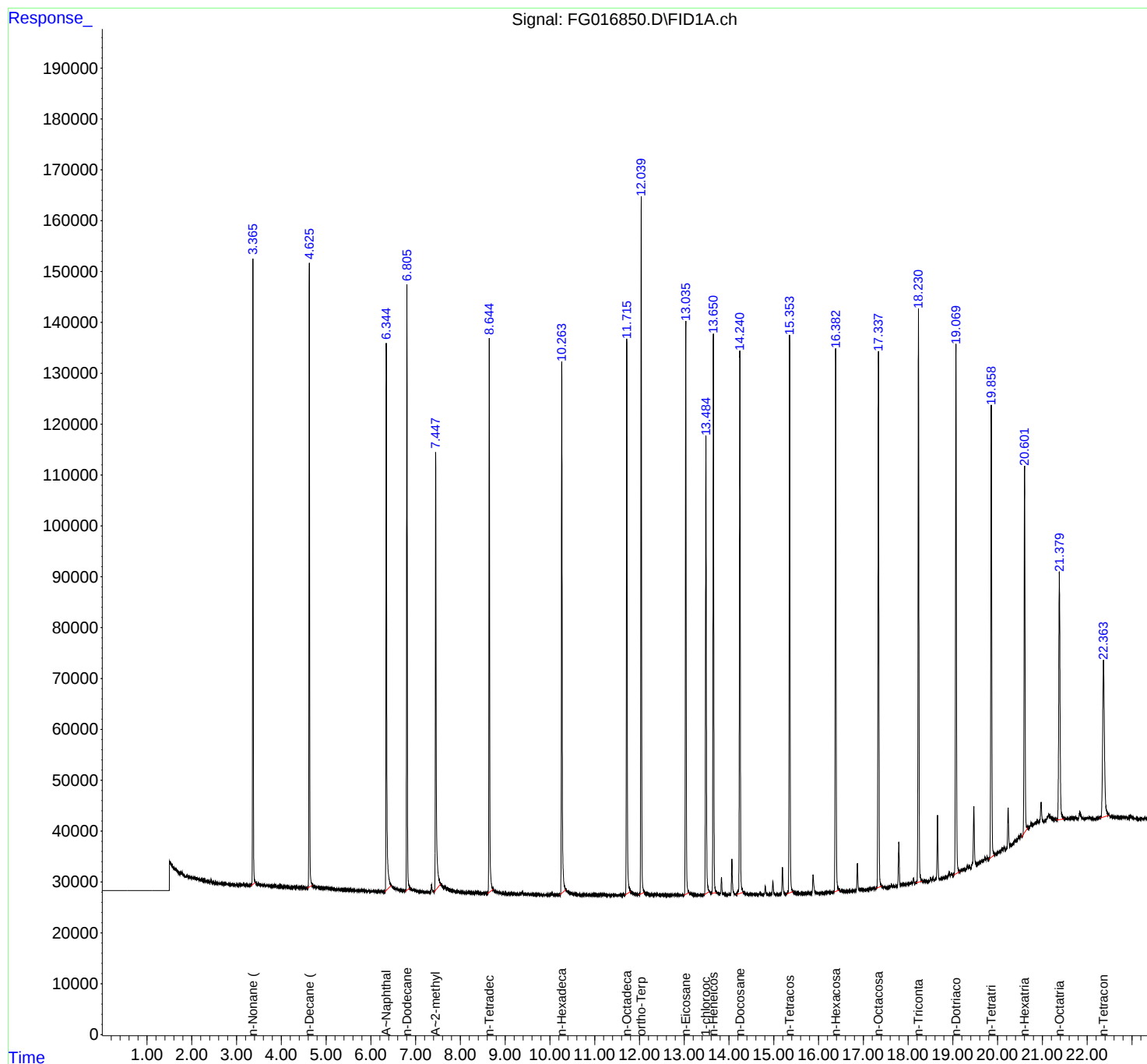
(m)=manual int.

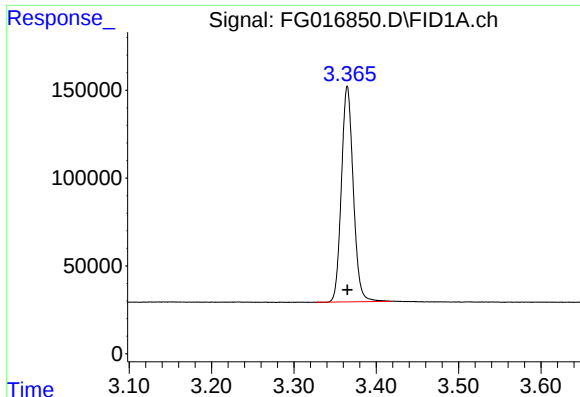
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016850.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 15:34
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 29 16:07:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 15:59:42 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

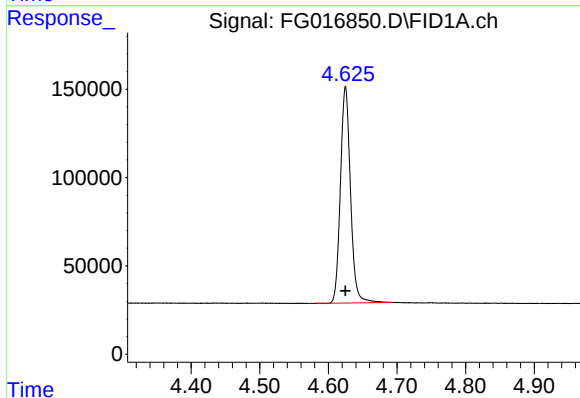




#1 n-Nonane (C9)

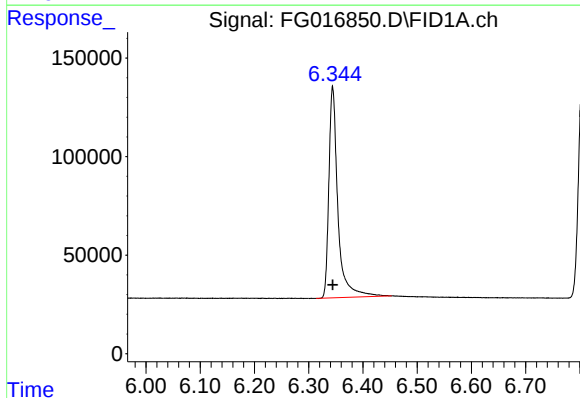
R.T.: 3.365 min
Delta R.T.: 0.000 min
Response: 1227509
Conc: 9.89 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



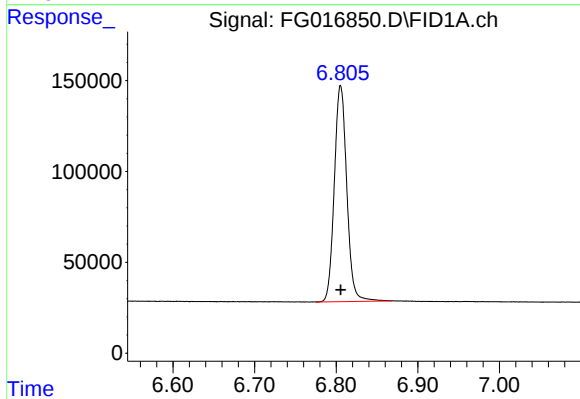
#2 n-Decane (C10)

R.T.: 4.625 min
Delta R.T.: 0.000 min
Response: 1247197
Conc: 9.72 ug/ml



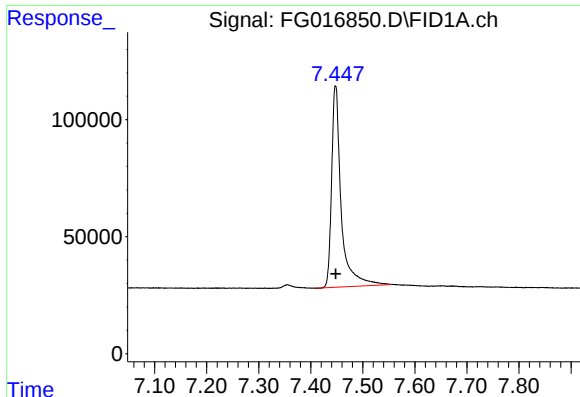
#3 A~Naphthalene (C11.7)

R.T.: 6.344 min
Delta R.T.: 0.000 min
Response: 1241007
Conc: 9.25 ug/ml



#4 n-Dodecane (C12)

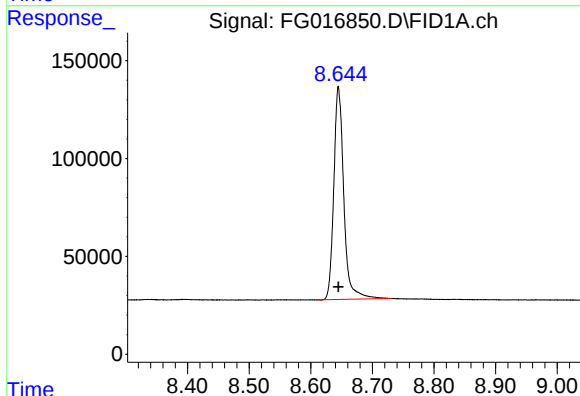
R.T.: 6.805 min
Delta R.T.: 0.000 min
Response: 1263581
Conc: 9.64 ug/ml



#5 A~2-methylnaphthalene (C12.89)

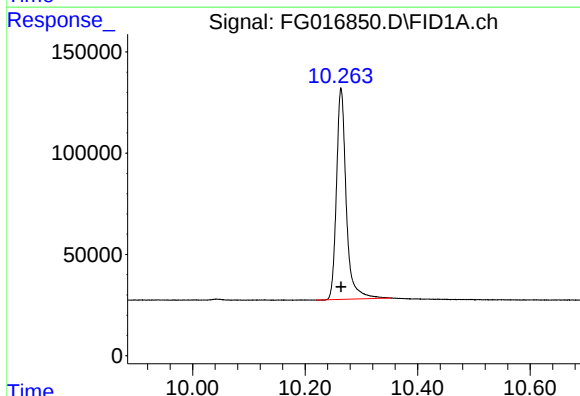
R.T.: 7.448 min
Delta R.T.: 0.000 min
Response: 1107098
Conc: 8.77 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



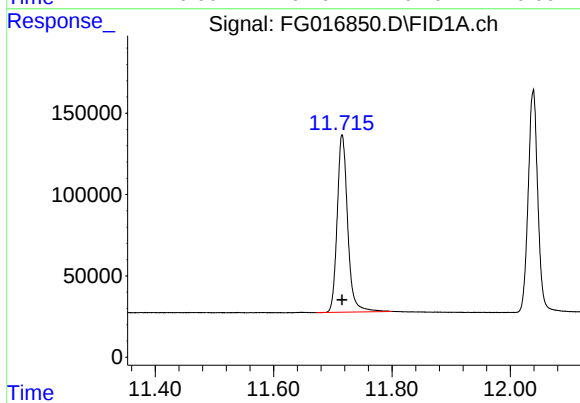
#6 n-Tetradecane (C14)

R.T.: 8.645 min
Delta R.T.: 0.000 min
Response: 1226376
Conc: 9.46 ug/ml



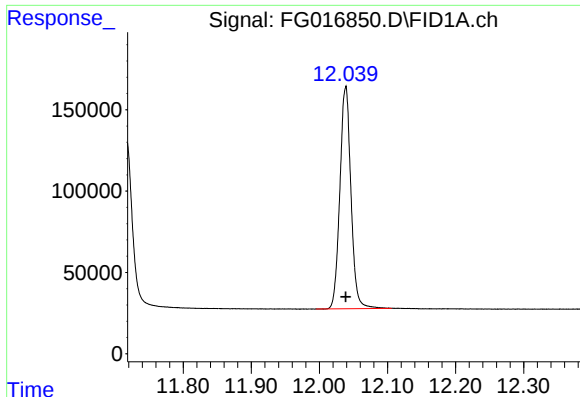
#7 n-Hexadecane (C16)

R.T.: 10.264 min
Delta R.T.: 0.000 min
Response: 1257832
Conc: 9.34 ug/ml



#8 n-Octadecane (C18)

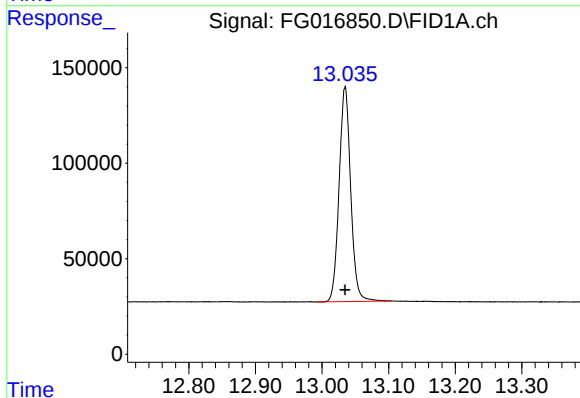
R.T.: 11.716 min
Delta R.T.: 0.000 min
Response: 1342945
Conc: 9.56 ug/ml



#9 ortho-Terphenyl (SURR)

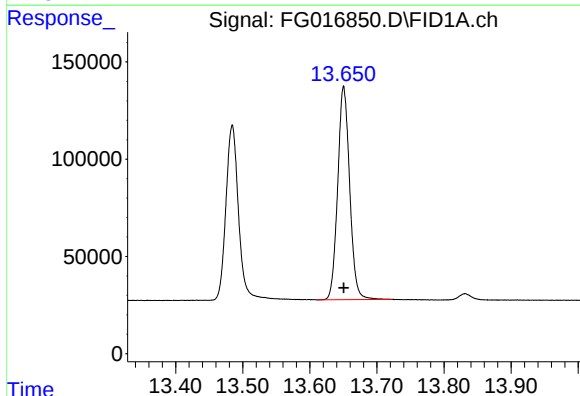
R.T.: 12.039 min
Delta R.T.: 0.000 min
Response: 1540407
Conc: 9.80 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



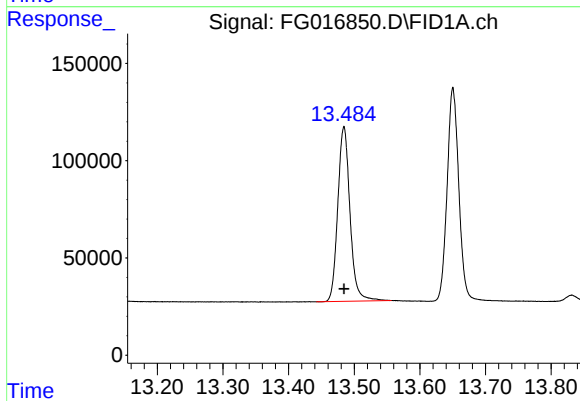
#10 n-Eicosane (C20)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 1359854
Conc: 9.76 ug/ml



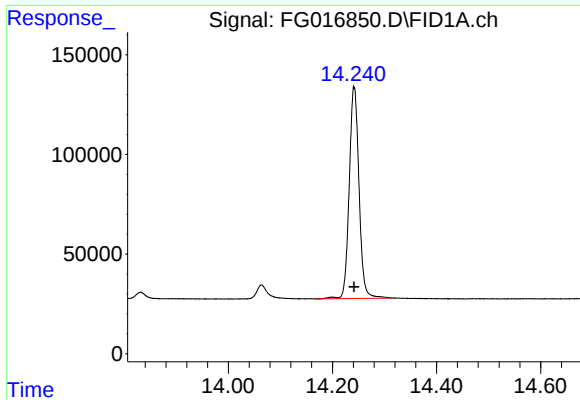
#11 n-Heneicosane (C21)

R.T.: 13.650 min
Delta R.T.: 0.000 min
Response: 1357956
Conc: 9.81 ug/ml



#12 1-chlorooctadecane (SURR)

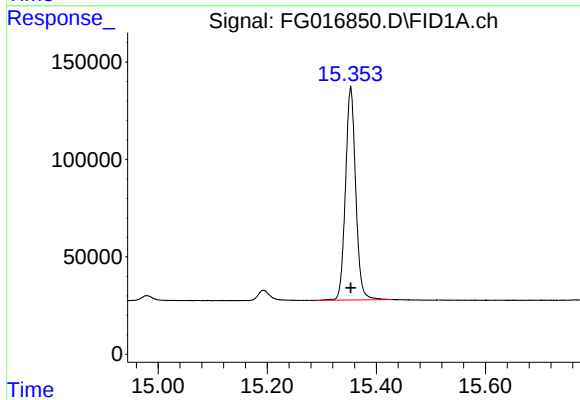
R.T.: 13.484 min
Delta R.T.: 0.000 min
Response: 1159523
Conc: 9.60 ug/ml



#13 n-Docosane (C22)

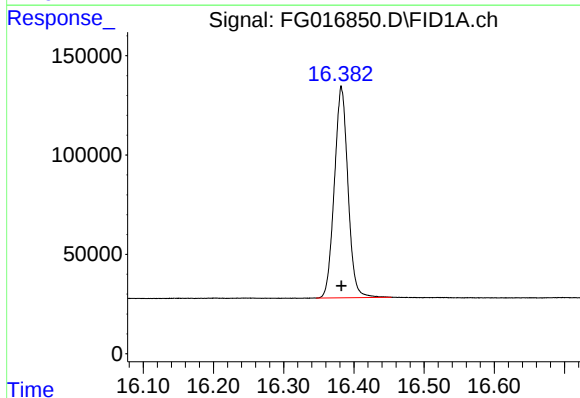
R.T.: 14.242 min
Delta R.T.: 0.000 min
Response: 1388013
Conc: 9.93 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



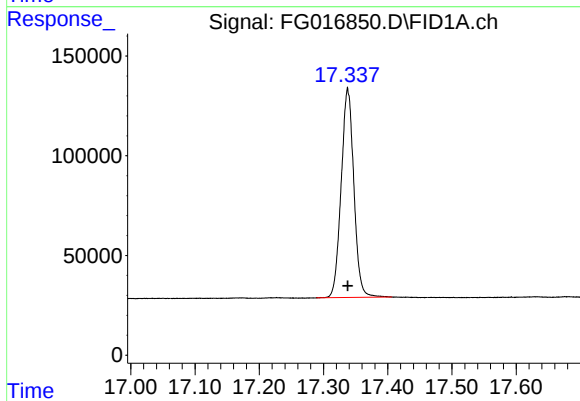
#14 n-Tetracosane (C24)

R.T.: 15.353 min
Delta R.T.: 0.000 min
Response: 1422731
Conc: 10.03 ug/ml



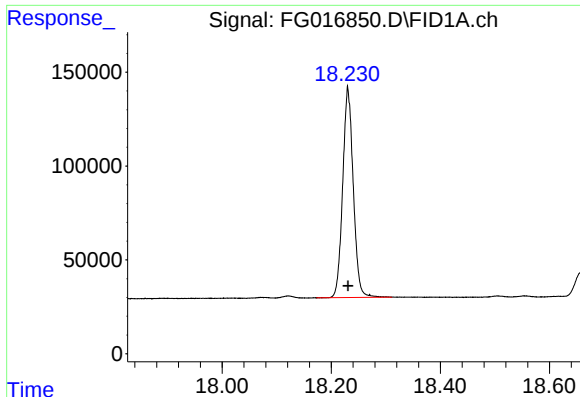
#15 n-Hexacosane (C26)

R.T.: 16.382 min
Delta R.T.: 0.000 min
Response: 1429320
Conc: 10.13 ug/ml



#16 n-Octacosane (C28)

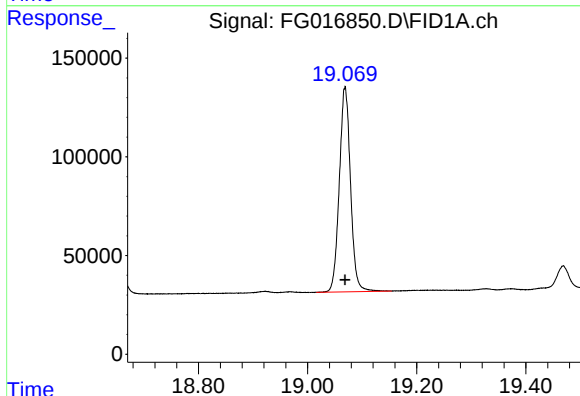
R.T.: 17.338 min
Delta R.T.: 0.000 min
Response: 1437422
Conc: 10.30 ug/ml



#17 n-Tricontane (C30)

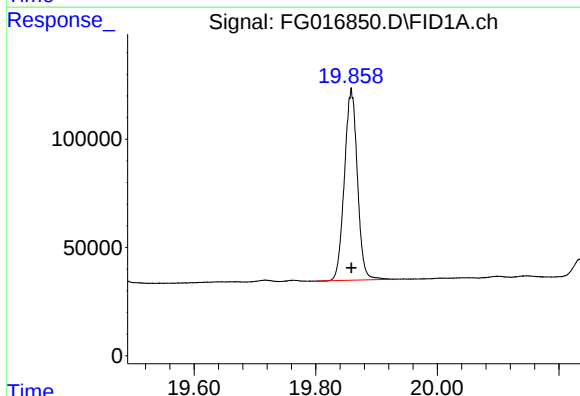
R.T.: 18.231 min
Delta R.T.: 0.000 min
Response: 1500914
Conc: 10.55 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



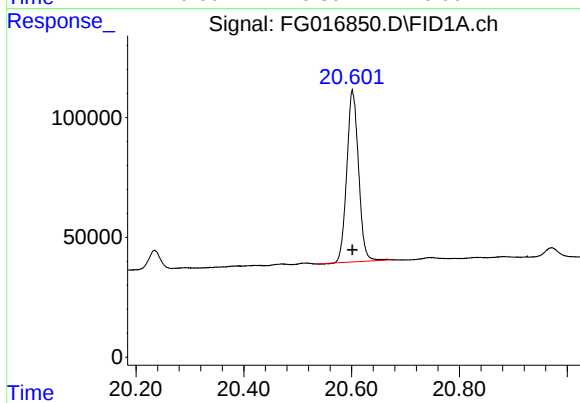
#18 n-Dotriacontane (C32)

R.T.: 19.069 min
Delta R.T.: 0.000 min
Response: 1477442
Conc: 10.80 ug/ml



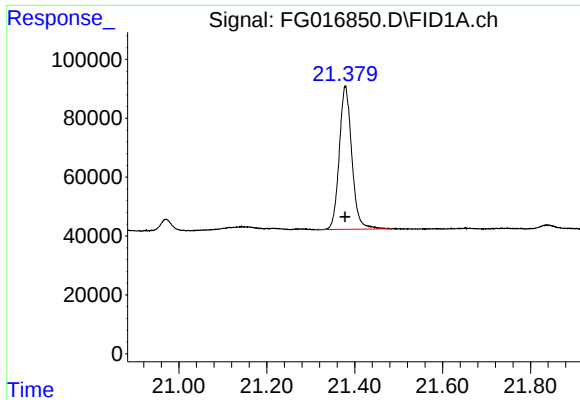
#19 n-Tetratriacontane (C34)

R.T.: 19.859 min
Delta R.T.: 0.000 min
Response: 1305571
Conc: 10.80 ug/ml



#20 n-Hexatriacontane (C36)

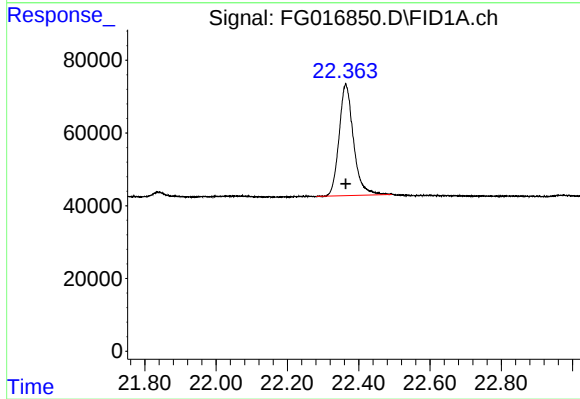
R.T.: 20.601 min
Delta R.T.: 0.000 min
Response: 1079984
Conc: 10.94 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.379 min
Delta R.T.: 0.000 min
Response: 965119
Conc: 11.32 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.364 min
Delta R.T.: 0.000 min
Response: 858492
Conc: 11.23 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016850.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 15:34
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.365	3.327	3.419	BB	123057	1227509	79.69%	4.353%
2	4.625	4.582	4.692	BB	122786	1247197	80.97%	4.423%
3	6.344	6.314	6.453	BB	106996	1241007	80.56%	4.401%
4	6.805	6.775	6.868	BB	118947	1263581	82.03%	4.481%
5	7.448	7.410	7.555	BB	85760	1107098	71.87%	3.926%
6	8.645	8.609	8.731	BB	108826	1226376	79.61%	4.349%
7	10.264	10.220	10.354	BB	104433	1257832	81.66%	4.461%
8	11.716	11.672	11.800	BB	109112	1342945	87.18%	4.763%
9	12.039	11.995	12.106	BB	136245	1540407	100.00%	5.463%
10	13.035	12.991	13.105	BB	112198	1359854	88.28%	4.823%
11	13.484	13.442	13.557	BB	89993	1159523	75.27%	4.112%
12	13.650	13.610	13.722	BB	109906	1357956	88.16%	4.816%
13	14.242	14.169	14.314	BB	105327	1388013	90.11%	4.923%
14	15.353	15.290	15.428	BB	109425	1422731	92.36%	5.046%
15	16.382	16.346	16.454	BB	106466	1429320	92.79%	5.069%
16	17.338	17.289	17.406	BB	104898	1437422	93.31%	5.098%
17	18.231	18.172	18.311	BB	111517	1500914	97.44%	5.323%
18	19.069	19.016	19.154	BB	104026	1477442	95.91%	5.240%
19	19.859	19.801	19.925	BB	88137	1305571	84.75%	4.630%
20	20.601	20.534	20.674	BB	71578	1079984	70.11%	3.830%
21	21.379	21.312	21.484	BB	48560	965119	62.65%	3.423%
22	22.364	22.281	22.492	BB	30871	858492	55.73%	3.045%
Sum of corrected areas:							28196296	

Aliphatic EPH 102925.M Thu Oct 30 04:25:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016851.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 16:03
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 29 16:21:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 16:20:58 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.038	803682	5.089 ug/ml
Spiked Amount 50.000		Recovery =	10.18%
12) S 1-chlorooctadecane (S...	13.485	594900	4.940 ug/ml
Spiked Amount 50.000		Recovery =	9.88%
Target Compounds			
1) T n-Nonane (C9)	3.366	631862	5.072 ug/ml
2) T n-Decane (C10)	4.626	634979	4.960 ug/ml
3) T A~Naphthalene (C11.7)	6.346	586359	4.481 ug/ml
4) T n-Dodecane (C12)	6.805	638302	4.896 ug/ml
5) T A~2-methylnaphthalene...	7.450	482946	4.013 ug/ml
6) T n-Tetradecane (C14)	8.645	601859	4.711 ug/ml
7) T n-Hexadecane (C16)	10.264	611242	4.626 ug/ml
8) T n-Octadecane (C18)	11.716	675251	4.846 ug/ml
10) T n-Eicosane (C20)	13.035	708892	5.072 ug/ml
11) T n-Heneicosane (C21)	13.651	706445	5.081 ug/ml
13) T n-Docosane (C22)	14.242	742660	5.249 ug/ml
14) T n-Tetracosane (C24)	15.353	838633	5.704 ug/ml
15) T n-Hexacosane (C26)	16.382	846912	5.773 ug/ml
16) T n-Octacosane (C28)	17.338	888097	6.033 ug/ml
17) T n-Tricontane (C30)	18.231	936866	6.192 ug/ml
18) T n-Dotriacontane (C32)	19.067	948772	6.436 ug/ml
19) T n-Tetratriacontane (C34)	19.856	802928	6.231 ug/ml
20) T n-Hexatriacontane (C36)	20.602	612734	5.920 ug/ml
21) T n-Octatriacontane (C38)	21.377	499378	5.664 ug/ml
22) T n-Tetracontane (C40)	22.366	427963	5.466 ug/ml

(f)=RT Delta > 1/2 Window

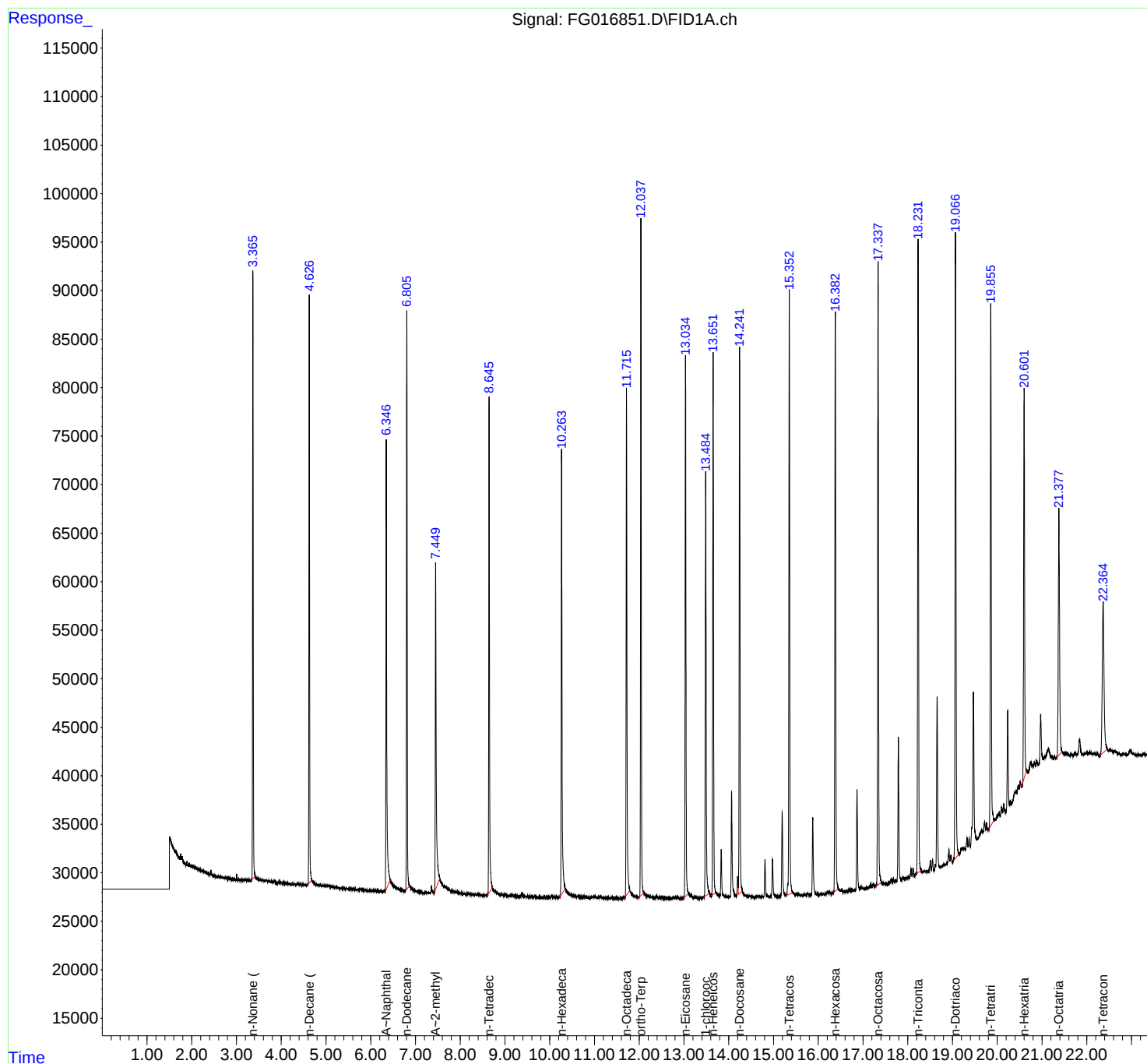
(m)=manual int.

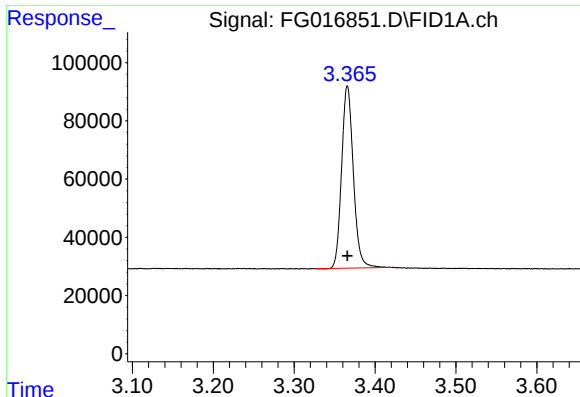
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016851.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 16:03
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 29 16:21:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

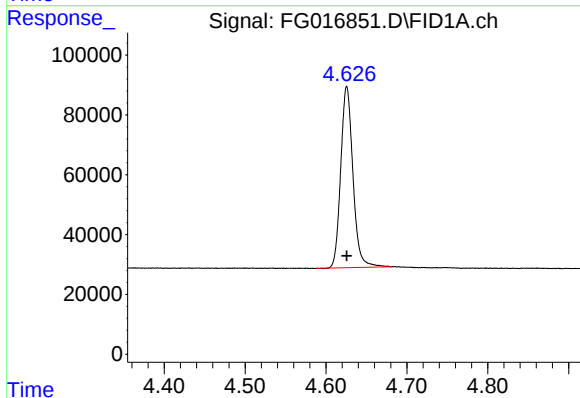




#1 n-Nonane (C9)

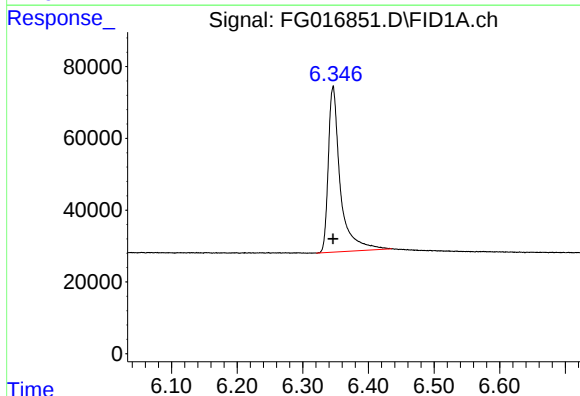
R.T.: 3.366 min
Delta R.T.: 0.000 min
Response: 631862
Conc: 5.07 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



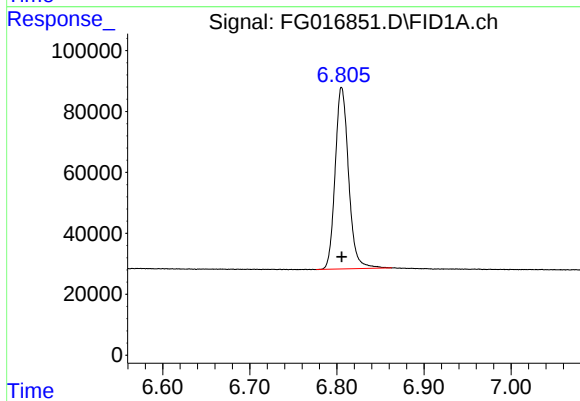
#2 n-Decane (C10)

R.T.: 4.626 min
Delta R.T.: 0.000 min
Response: 634979
Conc: 4.96 ug/ml



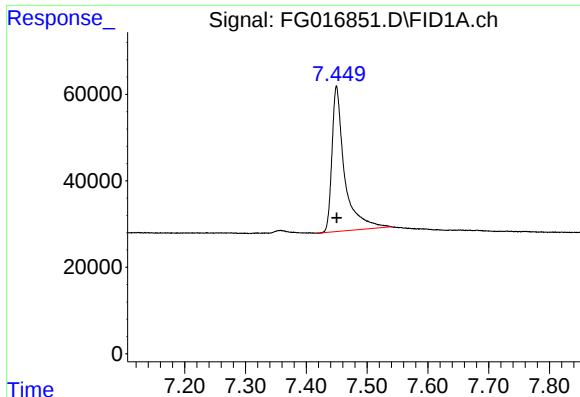
#3 A~Naphthalene (C11.7)

R.T.: 6.346 min
Delta R.T.: 0.000 min
Response: 586359
Conc: 4.48 ug/ml



#4 n-Dodecane (C12)

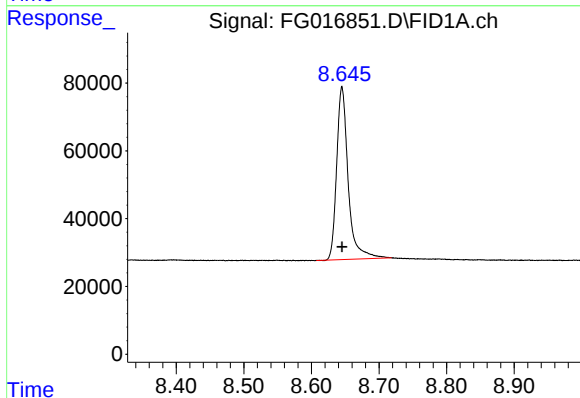
R.T.: 6.805 min
Delta R.T.: 0.000 min
Response: 638302
Conc: 4.90 ug/ml



#5 A~2-methylnaphthalene (C12.89)

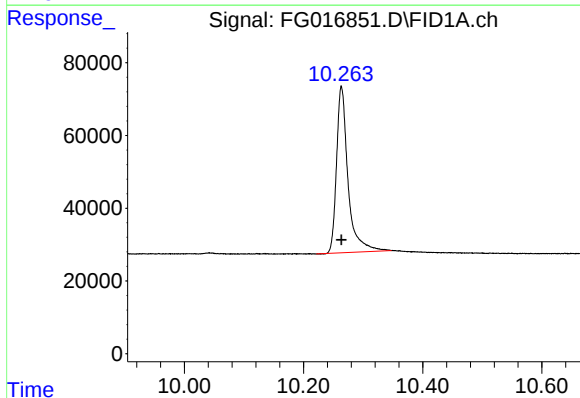
R.T.: 7.450 min
Delta R.T.: 0.000 min
Response: 482946
Conc: 4.01 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



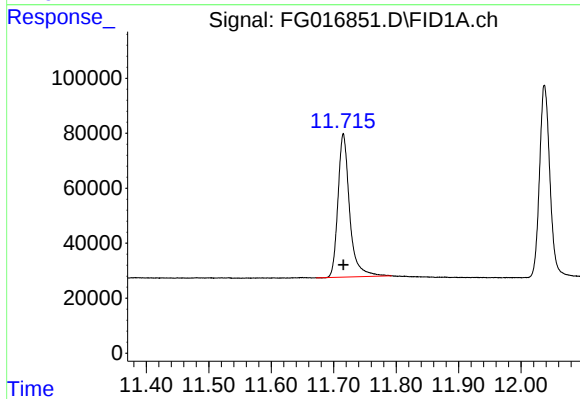
#6 n-Tetradecane (C14)

R.T.: 8.645 min
Delta R.T.: 0.000 min
Response: 601859
Conc: 4.71 ug/ml



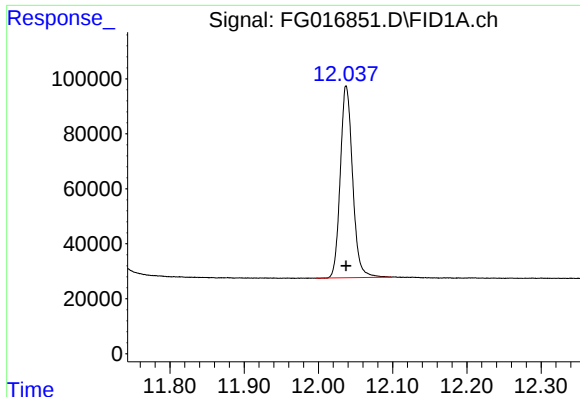
#7 n-Hexadecane (C16)

R.T.: 10.264 min
Delta R.T.: 0.000 min
Response: 611242
Conc: 4.63 ug/ml



#8 n-Octadecane (C18)

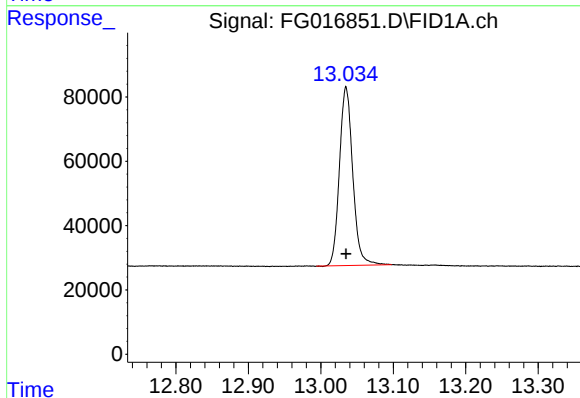
R.T.: 11.716 min
Delta R.T.: 0.000 min
Response: 675251
Conc: 4.85 ug/ml



#9 ortho-Terphenyl (SURR)

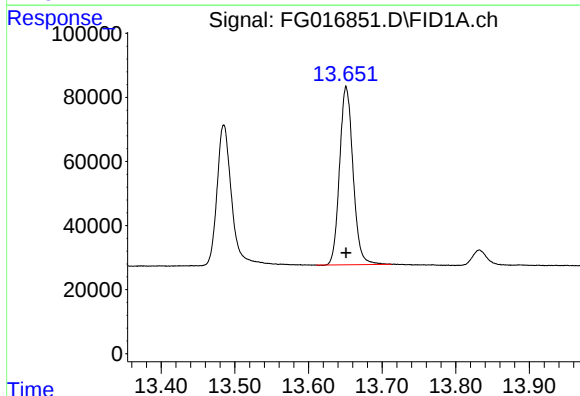
R.T.: 12.038 min
Delta R.T.: 0.000 min
Response: 803682
Conc: 5.09 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



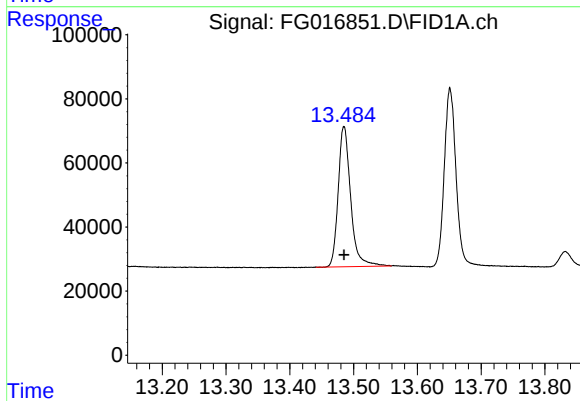
#10 n-Eicosane (C20)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 708892
Conc: 5.07 ug/ml



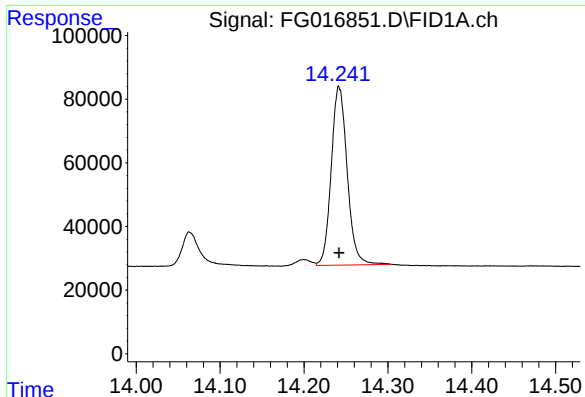
#11 n-Heneicosane (C21)

R.T.: 13.651 min
Delta R.T.: 0.000 min
Response: 706445
Conc: 5.08 ug/ml



#12 1-chlorooctadecane (SURR)

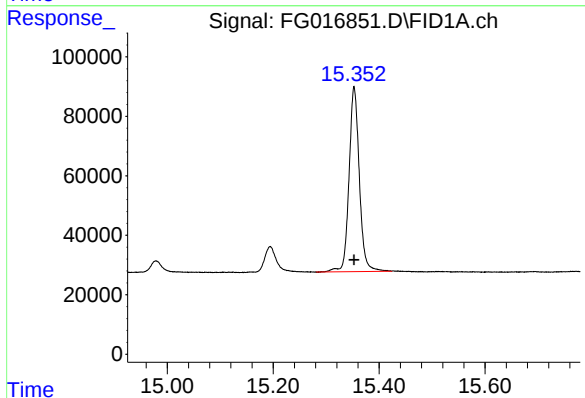
R.T.: 13.485 min
Delta R.T.: 0.000 min
Response: 594900
Conc: 4.94 ug/ml



#13 n-Docosane (C22)

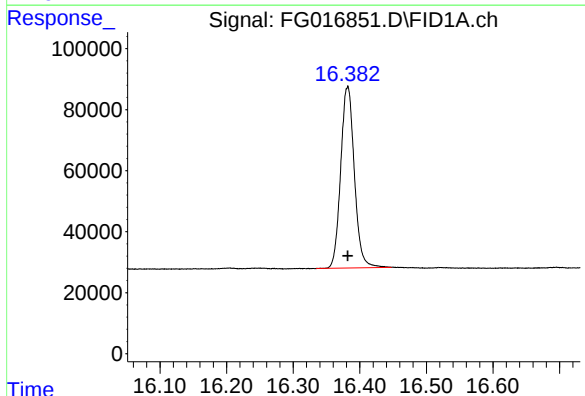
R.T.: 14.242 min
Delta R.T.: 0.000 min
Response: 742660
Conc: 5.25 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



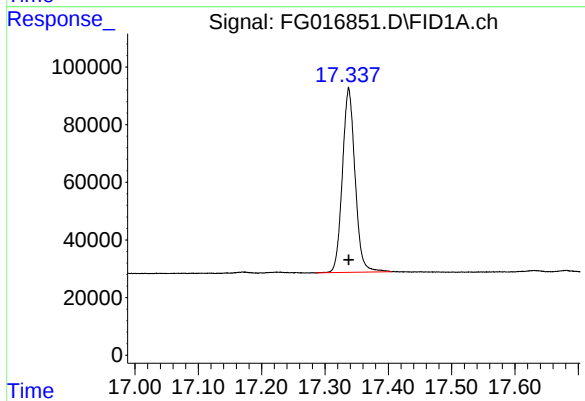
#14 n-Tetracosane (C24)

R.T.: 15.353 min
Delta R.T.: 0.000 min
Response: 838633
Conc: 5.70 ug/ml



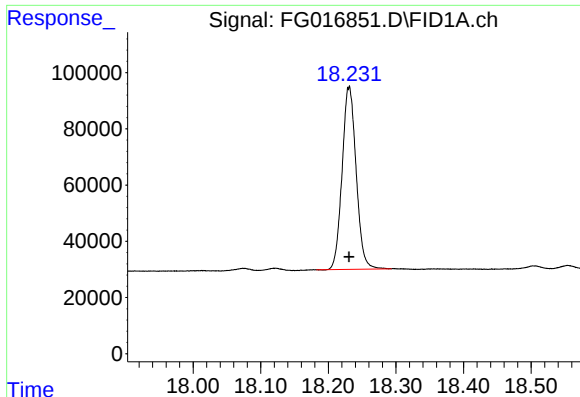
#15 n-Hexacosane (C26)

R.T.: 16.382 min
Delta R.T.: 0.000 min
Response: 846912
Conc: 5.77 ug/ml



#16 n-Octacosane (C28)

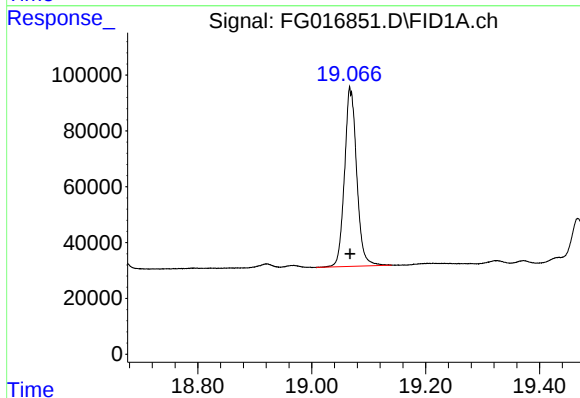
R.T.: 17.338 min
Delta R.T.: 0.000 min
Response: 888097
Conc: 6.03 ug/ml



#17 n-Tricontane (C30)

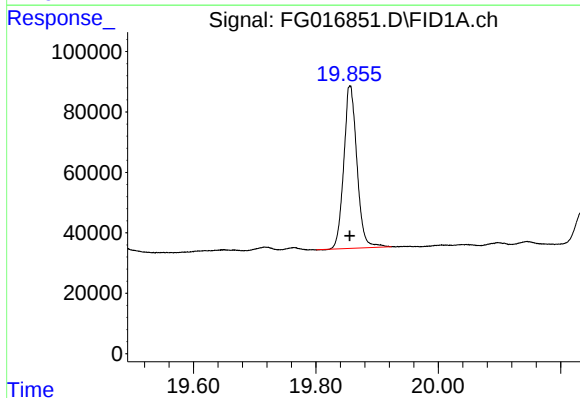
R.T.: 18.231 min
Delta R.T.: 0.000 min
Response: 936866
Conc: 6.19 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



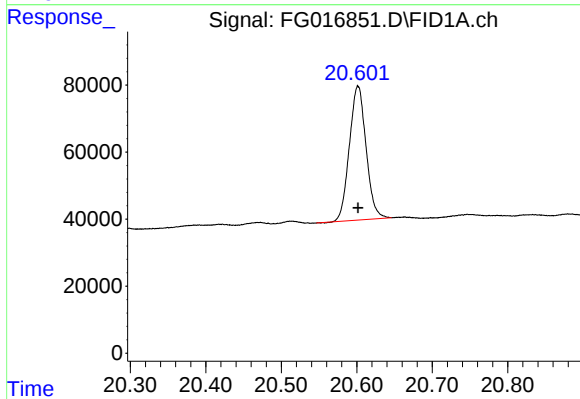
#18 n-Dotriacontane (C32)

R.T.: 19.067 min
Delta R.T.: 0.000 min
Response: 948772
Conc: 6.44 ug/ml



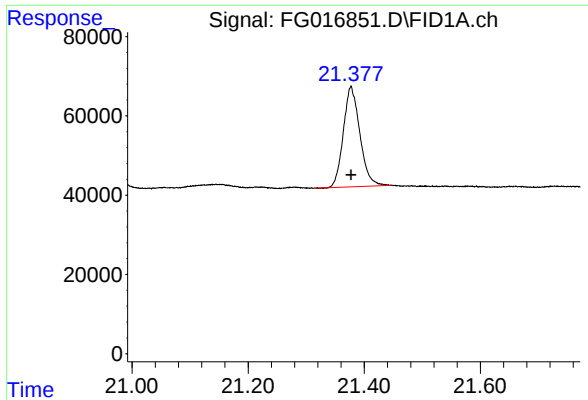
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 802928
Conc: 6.23 ug/ml



#20 n-Hexatriacontane (C36)

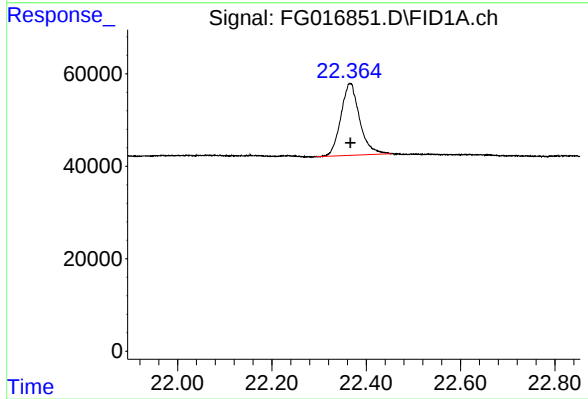
R.T.: 20.602 min
Delta R.T.: 0.000 min
Response: 612734
Conc: 5.92 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.377 min
Delta R.T.: 0.000 min
Response: 499378
Conc: 5.66 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.366 min
Delta R.T.: 0.000 min
Response: 427963
Conc: 5.47 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016851.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 16:03
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.366	3.327	3.420	BB	62632	631862	66.60%	4.151%
2	4.626	4.588	4.681	BB	60624	634979	66.93%	4.172%
3	6.346	6.320	6.435	BB	46240	586359	61.80%	3.852%
4	6.805	6.776	6.863	BB	59610	638302	67.28%	4.193%
5	7.450	7.416	7.540	BB	33672	482946	50.90%	3.173%
6	8.645	8.607	8.719	BB	51093	601859	63.44%	3.954%
7	10.264	10.221	10.348	BB	45795	611242	64.42%	4.016%
8	11.716	11.672	11.793	BB	52261	675251	71.17%	4.436%
9	12.038	11.997	12.099	BB	69789	803682	84.71%	5.280%
10	13.035	12.994	13.098	BB	55683	708892	74.72%	4.657%
11	13.485	13.441	13.560	BB	43734	594900	62.70%	3.908%
12	13.651	13.610	13.713	BB	55770	706445	74.46%	4.641%
13	14.242	14.215	14.305	VB	55947	742660	78.28%	4.879%
14	15.353	15.281	15.424	BB	62207	838633	88.39%	5.509%
15	16.382	16.335	16.448	BB	59622	846912	89.26%	5.564%
16	17.338	17.286	17.405	BB	63923	888097	93.60%	5.834%
17	18.231	18.182	18.294	BB	64427	936866	98.75%	6.155%
18	19.067	19.008	19.140	BB	63998	948772	100.00%	6.233%
19	19.856	19.800	19.924	BB	53761	802928	84.63%	5.275%
20	20.602	20.546	20.646	BB	39804	612734	64.58%	4.025%
21	21.377	21.317	21.447	BB	25353	499378	52.63%	3.281%
22	22.366	22.294	22.454	BB	15505	427963	45.11%	2.812%
Sum of corrected areas:						15221664		

Aliphatic EPH 102925.M Thu Oct 30 04:28:51 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016852.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 16:33
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 29 17:28:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 16:21:47 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.050	13754034	87.089 ug/ml
Spiked Amount 50.000		Recovery =	174.18%
12) S 1-chlorooctadecane (S...	13.492	10715413	88.974 ug/ml
Spiked Amount 50.000		Recovery =	177.95%
Target Compounds			
1) T n-Nonane (C9)	3.368	11225657	90.101 ug/ml
2) T n-Decane (C10)	4.630	11442592	89.379 ug/ml
3) T A~Naphthalene (C11.7)	6.349	12390439	94.698 ug/ml
4) T n-Dodecane (C12)	6.812	11594218	88.923 ug/ml
5) T A~2-methylnaphthalene...	7.453	11900380	98.891 ug/ml
6) T n-Tetradecane (C14)	8.652	11527988	90.235 ug/ml
7) T n-Hexadecane (C16)	10.270	12035154	91.082 ug/ml
8) T n-Octadecane (C18)	11.726	12403190	89.004 ug/ml
10) T n-Eicosane (C20)	13.043	12210298	87.354 ug/ml
11) T n-Heneicosane (C21)	13.661	12146981	87.367 ug/ml
13) T n-Docosane (C22)	14.250	12192468	86.179 ug/ml
14) T n-Tetracosane (C24)	15.362	12325975	83.834 ug/ml
15) T n-Hexacosane (C26)	16.390	12235907	83.402 ug/ml
16) T n-Octacosane (C28)	17.346	11989038	81.442 ug/ml
17) T n-Tricontane (C30)	18.240	11942968	78.928 ug/ml
18) T n-Dotriacontane (C32)	19.077	11253133	76.341 ug/ml
19) T n-Tetratriacontane (C34)	19.865	10198592	79.141 ug/ml
20) T n-Hexatriacontane (C36)	20.608	8820263	85.216 ug/ml
21) T n-Octatriacontane (C38)	21.384	7917818	89.811 ug/ml
22) T n-Tetracontane (C40)	22.369	7331145	93.629 ug/ml

(f)=RT Delta > 1/2 Window

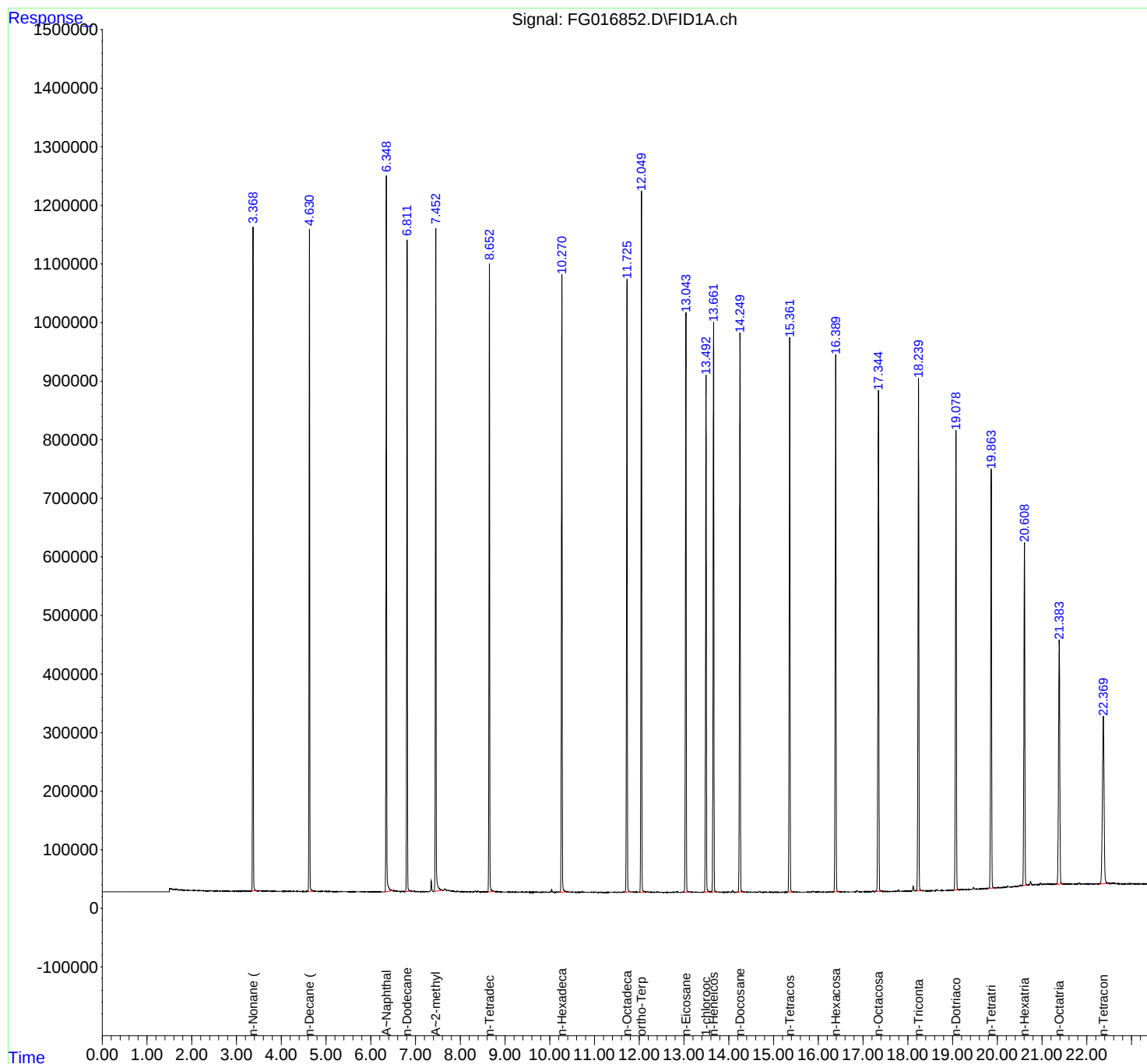
(m)=manual int.

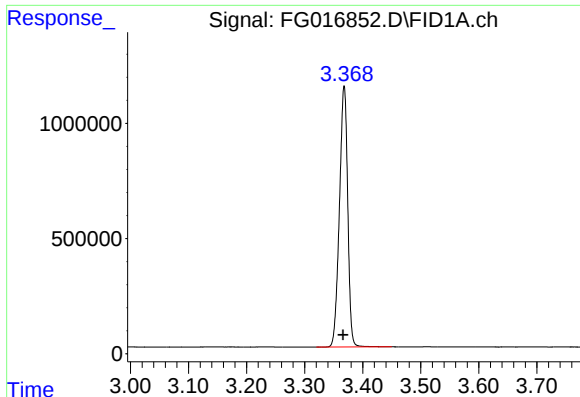
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016852.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 16:33
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 29 17:28:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 16:21:47 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

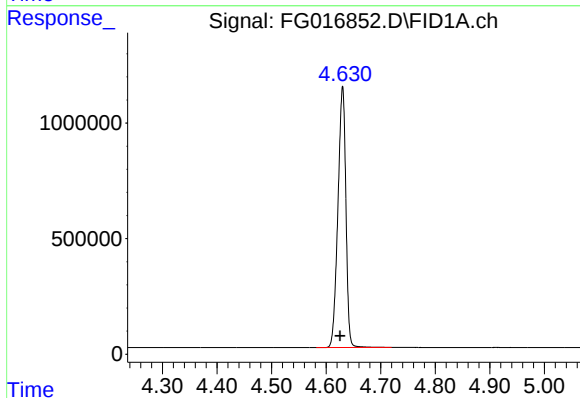
R.T.: 3.368 min
Delta R.T.: 0.002 min
Response: 11225657
Conc: 90.10 ug/ml

Instrument :

FID_G

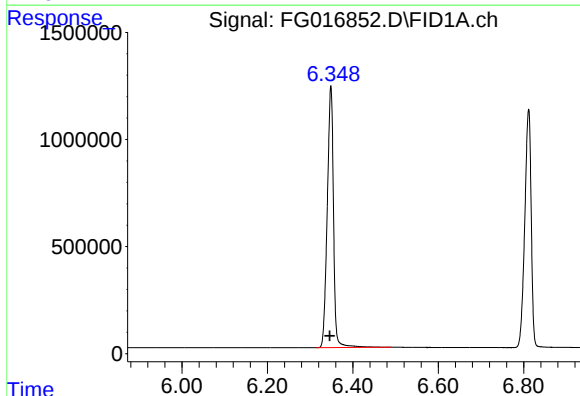
ClientSampleId :

100 PPM ALIPHATIC HC STD1



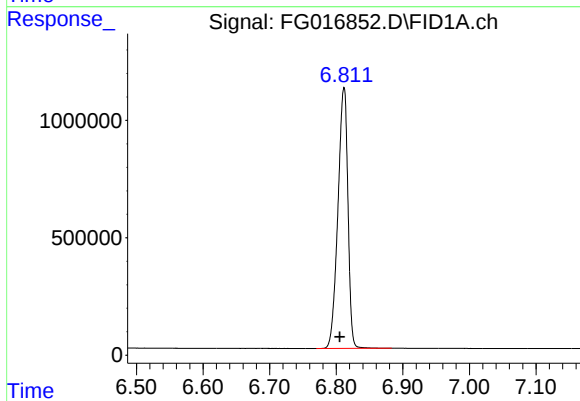
#2 n-Decane (C10)

R.T.: 4.630 min
Delta R.T.: 0.004 min
Response: 11442592
Conc: 89.38 ug/ml



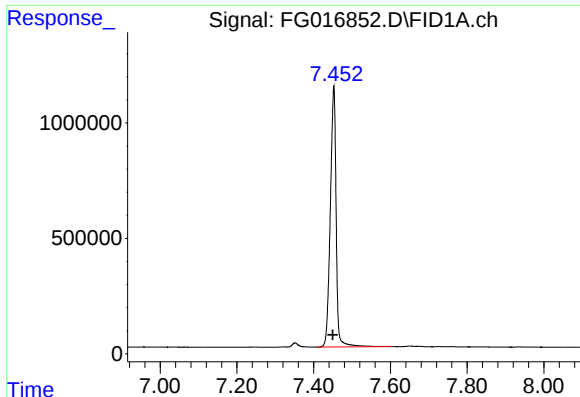
#3 A~Naphthalene (C11.7)

R.T.: 6.349 min
Delta R.T.: 0.003 min
Response: 12390439
Conc: 94.70 ug/ml



#4 n-Dodecane (C12)

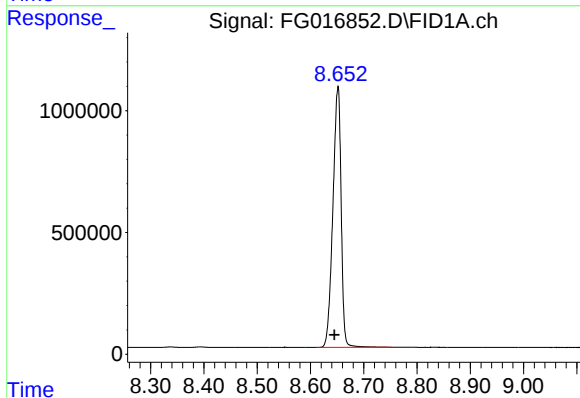
R.T.: 6.812 min
Delta R.T.: 0.006 min
Response: 11594218
Conc: 88.92 ug/ml



#5 A~2-methylnaphthalene (C12.89)

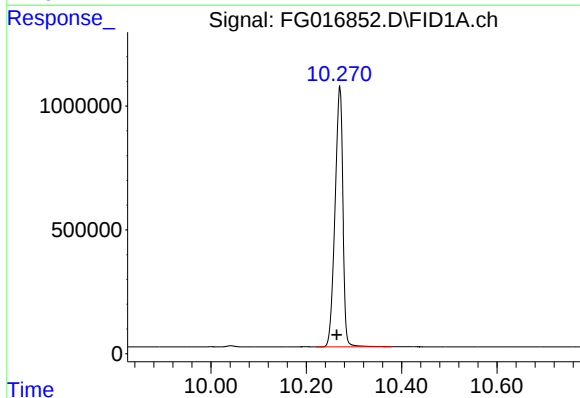
R.T.: 7.453 min
Delta R.T.: 0.003 min
Response: 11900380
Conc: 98.89 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



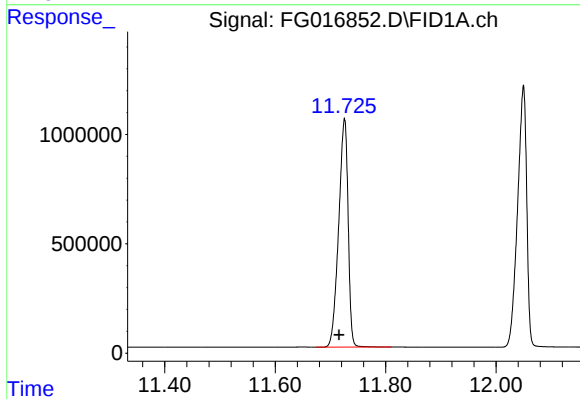
#6 n-Tetradecane (C14)

R.T.: 8.652 min
Delta R.T.: 0.006 min
Response: 11527988
Conc: 90.24 ug/ml



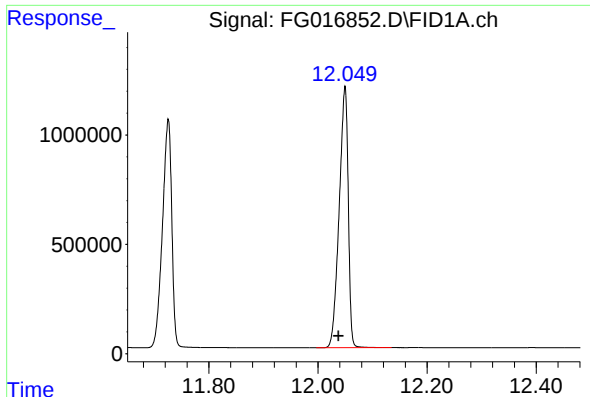
#7 n-Hexadecane (C16)

R.T.: 10.270 min
Delta R.T.: 0.007 min
Response: 12035154
Conc: 91.08 ug/ml



#8 n-Octadecane (C18)

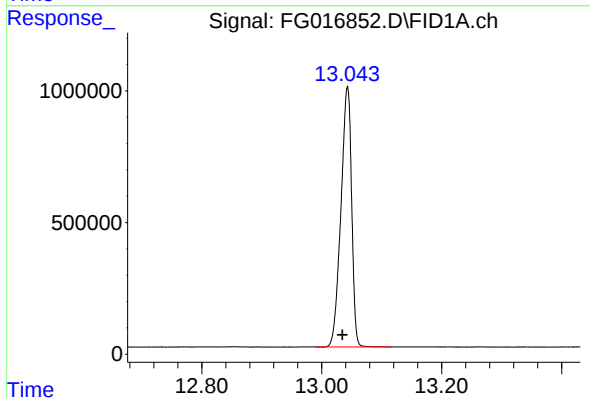
R.T.: 11.726 min
Delta R.T.: 0.010 min
Response: 12403190
Conc: 89.00 ug/ml



#9 ortho-Terphenyl (SURR)

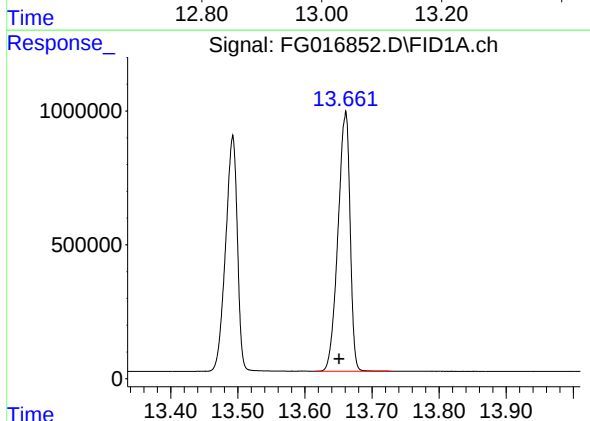
R.T.: 12.050 min
Delta R.T.: 0.012 min
Response: 13754034
Conc: 87.09 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



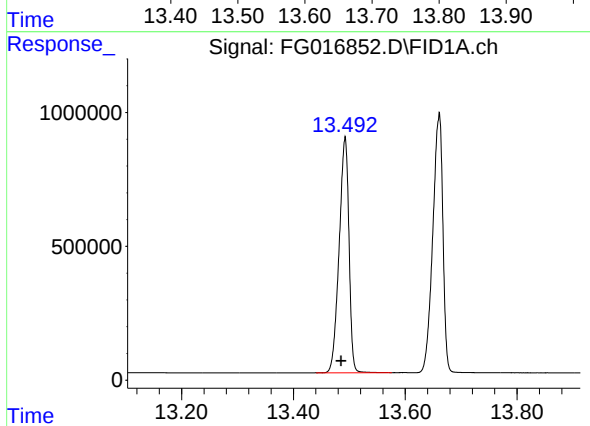
#10 n-Eicosane (C20)

R.T.: 13.043 min
Delta R.T.: 0.008 min
Response: 12210298
Conc: 87.35 ug/ml



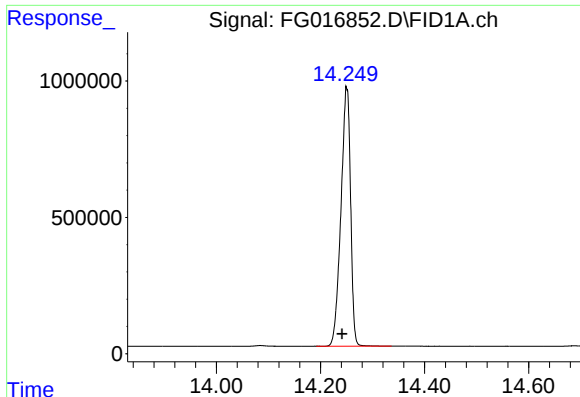
#11 n-Heneicosane (C21)

R.T.: 13.661 min
Delta R.T.: 0.010 min
Response: 12146981
Conc: 87.37 ug/ml



#12 1-chlorooctadecane (SURR)

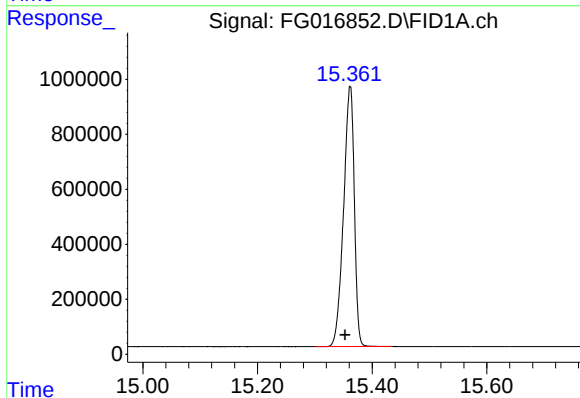
R.T.: 13.492 min
Delta R.T.: 0.007 min
Response: 10715413
Conc: 88.97 ug/ml



#13 n-Docosane (C22)

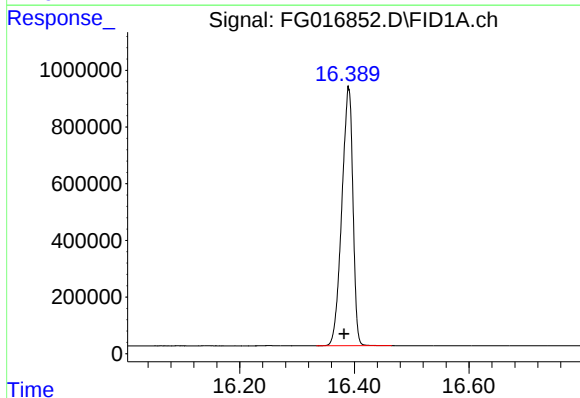
R.T.: 14.250 min
Delta R.T.: 0.009 min
Response: 12192468
Conc: 86.18 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



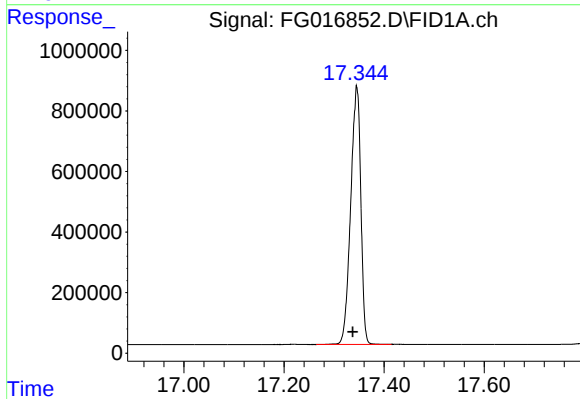
#14 n-Tetracosane (C24)

R.T.: 15.362 min
Delta R.T.: 0.009 min
Response: 12325975
Conc: 83.83 ug/ml



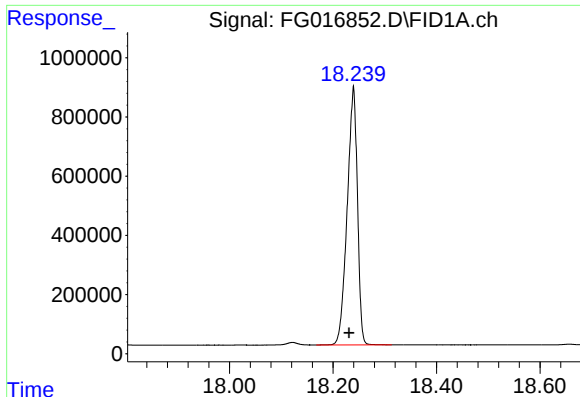
#15 n-Hexacosane (C26)

R.T.: 16.390 min
Delta R.T.: 0.008 min
Response: 12235907
Conc: 83.40 ug/ml



#16 n-Octacosane (C28)

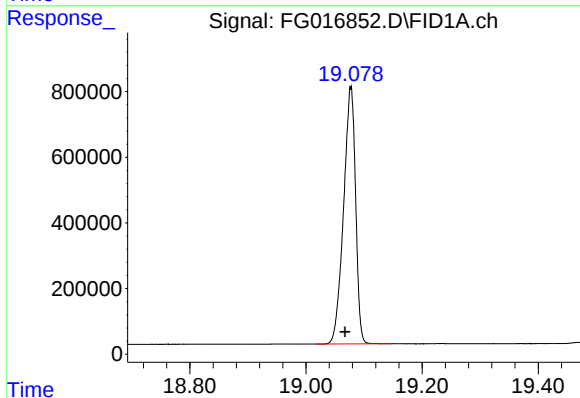
R.T.: 17.346 min
Delta R.T.: 0.008 min
Response: 11989038
Conc: 81.44 ug/ml



#17 n-Tricontane (C30)

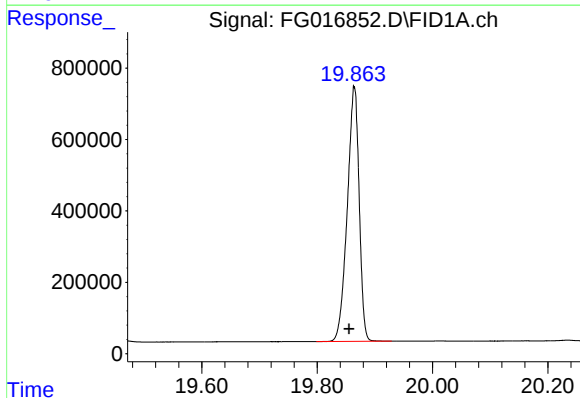
R.T.: 18.240 min
Delta R.T.: 0.009 min
Response: 11942968
Conc: 78.93 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



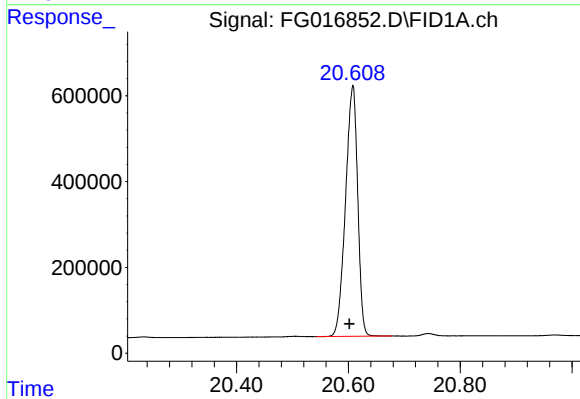
#18 n-Dotriacontane (C32)

R.T.: 19.077 min
Delta R.T.: 0.010 min
Response: 11253133
Conc: 76.34 ug/ml



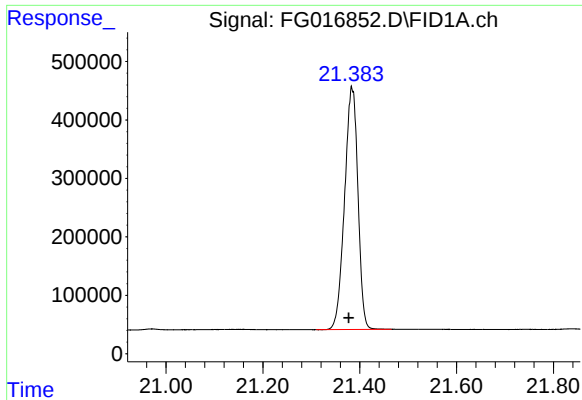
#19 n-Tetratriacontane (C34)

R.T.: 19.865 min
Delta R.T.: 0.009 min
Response: 10198592
Conc: 79.14 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.608 min
Delta R.T.: 0.006 min
Response: 8820263
Conc: 85.22 ug/ml



#21 n-Octatriacontane (C38)

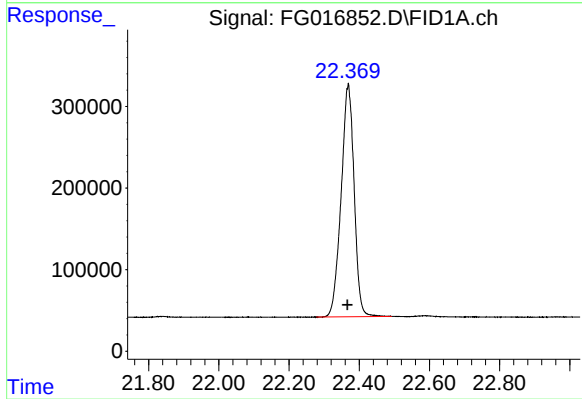
R.T.: 21.384 min
Delta R.T.: 0.007 min
Response: 7917818
Conc: 89.81 ug/ml

Instrument :

FID_G

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.369 min
Delta R.T.: 0.003 min
Response: 7331145
Conc: 93.63 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016852.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 16:33
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.368	3.320	3.450	BB	1133978	11225657	81.62%	4.498%
2	4.630	4.582	4.720	BB	1130326	11442592	83.19%	4.585%
3	6.349	6.314	6.491	BB	1221514	12390439	90.09%	4.965%
4	6.812	6.770	6.883	BB	1111879	11594218	84.30%	4.646%
5	7.453	7.407	7.603	PB	1131464	11900380	86.52%	4.769%
6	8.652	8.611	8.753	BB	1069318	11527988	83.82%	4.619%
7	10.270	10.221	10.379	BB	1052759	12035154	87.50%	4.823%
8	11.726	11.674	11.811	BB	1043140	12403190	90.18%	4.970%
9	12.050	11.997	12.135	BB	1194675	13754034	100.00%	5.511%
10	13.043	12.991	13.117	BB	990306	12210298	88.78%	4.893%
11	13.492	13.441	13.576	BB	880530	10715413	77.91%	4.294%
12	13.661	13.617	13.729	BB	970977	12146981	88.32%	4.867%
13	14.250	14.192	14.337	BB	940395	12192468	88.65%	4.886%
14	15.362	15.303	15.434	BB	944988	12325975	89.62%	4.939%
15	16.390	16.333	16.465	BB	906665	12235907	88.96%	4.903%
16	17.346	17.264	17.415	BB	849579	11989038	87.17%	4.804%
17	18.240	18.168	18.313	BB	875916	11942968	86.83%	4.786%
18	19.077	19.018	19.148	BB	776557	11253133	81.82%	4.509%
19	19.865	19.798	19.929	BB	711716	10198592	74.15%	4.087%
20	20.608	20.543	20.678	BB	585252	8820263	64.13%	3.534%
21	21.384	21.310	21.466	BB	412561	7917818	57.57%	3.173%
22	22.369	22.278	22.493	BB	286131	7331145	53.30%	2.938%
Sum of corrected areas:						249553650		

Aliphatic EPH 102925.M Thu Oct 30 04:29:18 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
 Data File : FG016853.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2025 17:32
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 29 17:42:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 16:21:47 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.039	2878633	18.227 ug/ml
Spiked Amount 50.000		Recovery =	36.45%
12) S 1-chlorooctadecane (S...	13.485	2197563	18.247 ug/ml
Spiked Amount 50.000		Recovery =	36.49%
Target Compounds			
1) T n-Nonane (C9)	3.365	2333992	18.734 ug/ml
2) T n-Decane (C10)	4.625	2380603	18.595 ug/ml
3) T A~Naphthalene (C11.7)	6.343	2445124	18.688 ug/ml
4) T n-Dodecane (C12)	6.806	2412397	18.502 ug/ml
5) T A~2-methylnaphthalene...	7.447	2263229	18.807 ug/ml
6) T n-Tetradecane (C14)	8.646	2364432	18.508 ug/ml
7) T n-Hexadecane (C16)	10.264	2446067	18.512 ug/ml
8) T n-Octadecane (C18)	11.717	2558203	18.357 ug/ml
10) T n-Eicosane (C20)	13.035	2540186	18.173 ug/ml
11) T n-Heneicosane (C21)	13.652	2526929	18.175 ug/ml
13) T n-Docosane (C22)	14.243	2527708	17.866 ug/ml
14) T n-Tetracosane (C24)	15.353	2549263	17.339 ug/ml
15) T n-Hexacosane (C26)	16.381	2534590	17.276 ug/ml
16) T n-Octacosane (C28)	17.338	2511002	17.057 ug/ml
17) T n-Tricontane (C30)	18.232	2583310	17.072 ug/ml
18) T n-Dotriacontane (C32)	19.069	2504607	16.991 ug/ml
19) T n-Tetratriacontane (C34)	19.856	2261777	17.551 ug/ml
20) T n-Hexatriacontane (C36)	20.600	1919405	18.544 ug/ml
21) T n-Octatriacontane (C38)	21.378	1687771	19.144 ug/ml
22) T n-Tetracontane (C40)	22.363	1511163	19.300 ug/ml

(f)=RT Delta > 1/2 Window

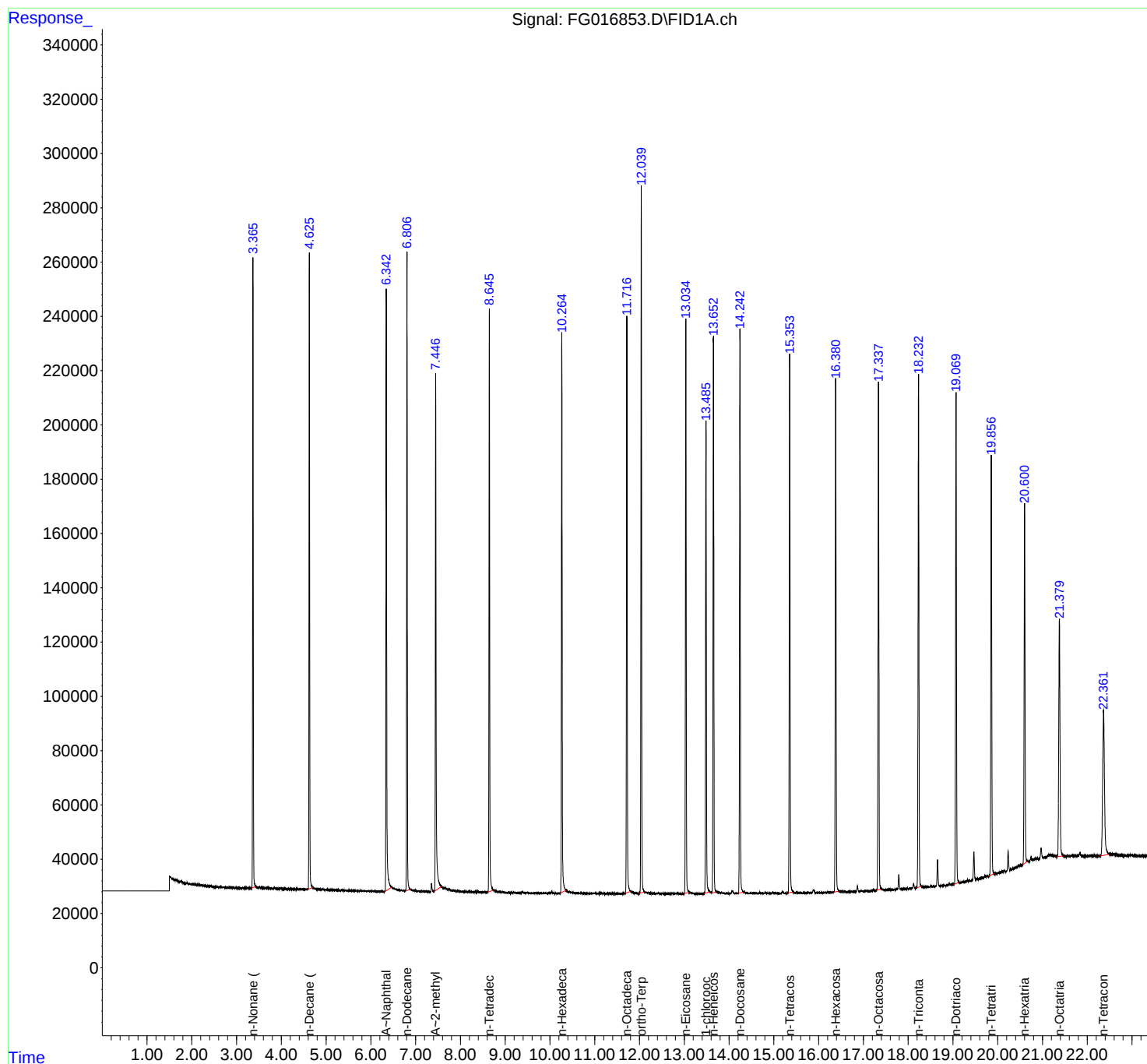
(m)=manual int.

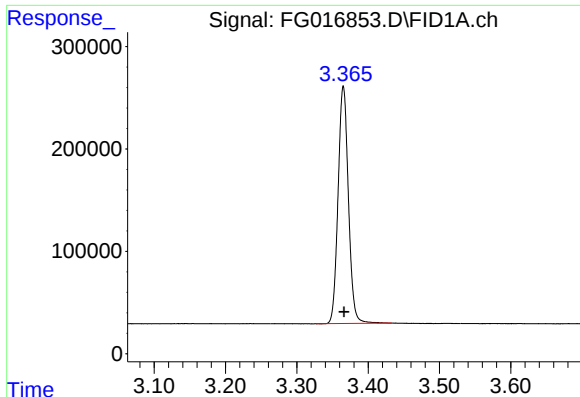
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016853.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 17:32
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 29 17:42:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 16:21:47 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

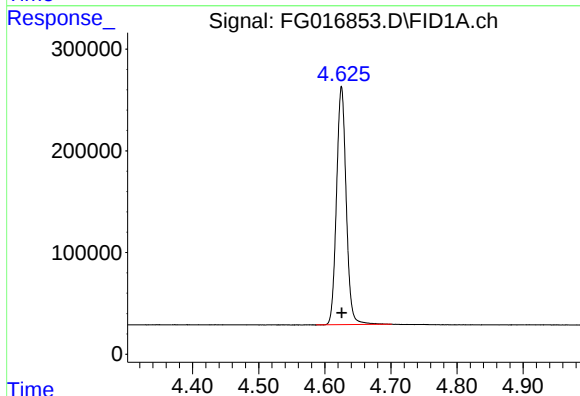
R.T.: 3.365 min
Delta R.T.: 0.000 min
Response: 2333992
Conc: 18.73 ug/ml

Instrument :

FID_G

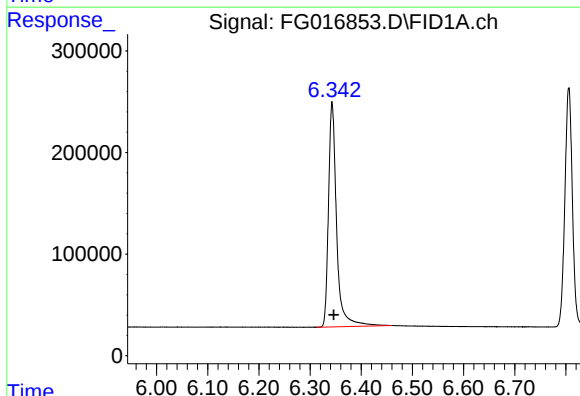
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



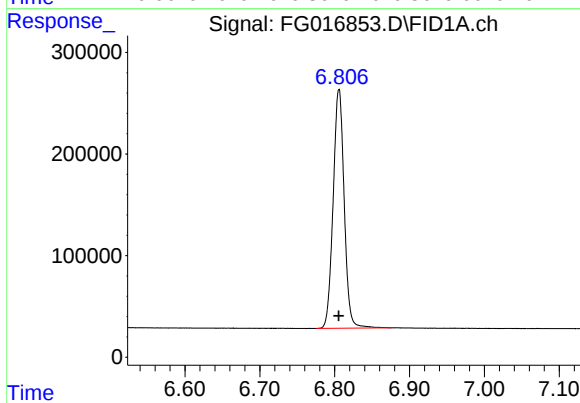
#2 n-Decane (C10)

R.T.: 4.625 min
Delta R.T.: 0.000 min
Response: 2380603
Conc: 18.60 ug/ml



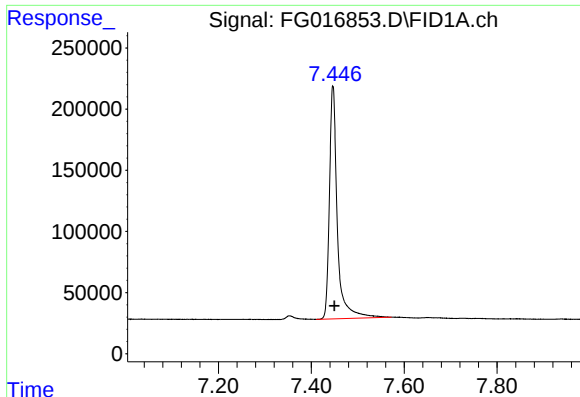
#3 A~Naphthalene (C11.7)

R.T.: 6.343 min
Delta R.T.: -0.003 min
Response: 2445124
Conc: 18.69 ug/ml



#4 n-Dodecane (C12)

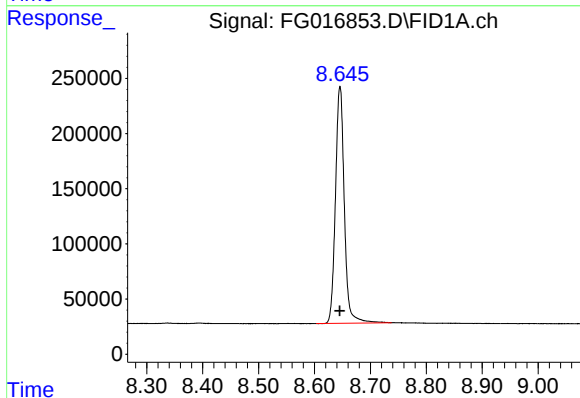
R.T.: 6.806 min
Delta R.T.: 0.000 min
Response: 2412397
Conc: 18.50 ug/ml



#5 A~2-methylnaphthalene (C12.89)

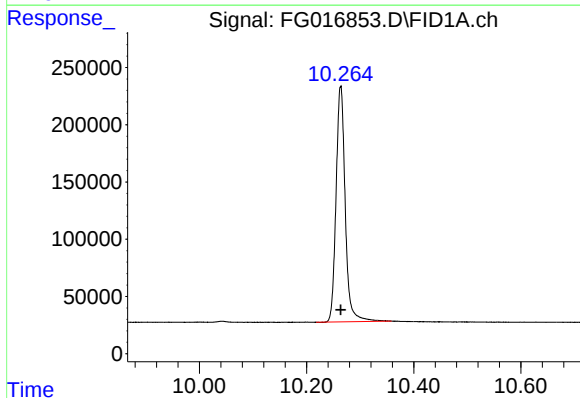
R.T.: 7.447 min
Delta R.T.: -0.003 min
Response: 2263229
Conc: 18.81 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



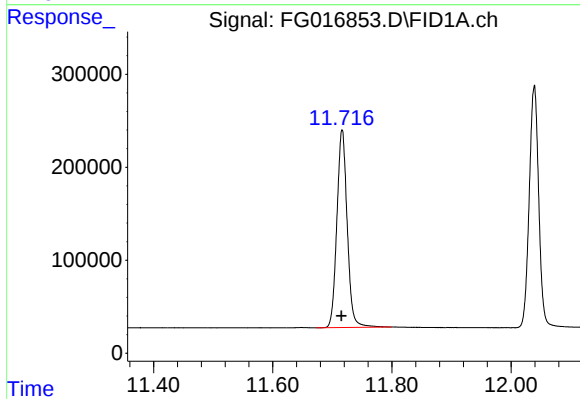
#6 n-Tetradecane (C14)

R.T.: 8.646 min
Delta R.T.: 0.000 min
Response: 2364432
Conc: 18.51 ug/ml



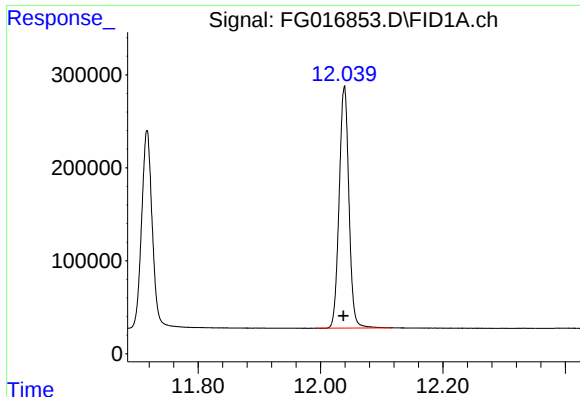
#7 n-Hexadecane (C16)

R.T.: 10.264 min
Delta R.T.: 0.000 min
Response: 2446067
Conc: 18.51 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.717 min
Delta R.T.: 0.000 min
Response: 2558203
Conc: 18.36 ug/ml



#9 ortho-Terphenyl (SURR)

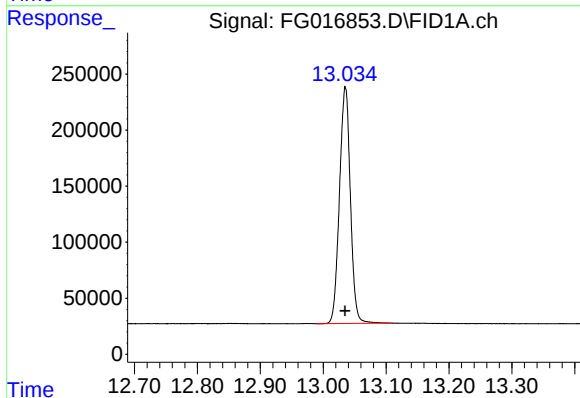
R.T.: 12.039 min
Delta R.T.: 0.001 min
Response: 2878633
Conc: 18.23 ug/ml

Instrument :

FID_G

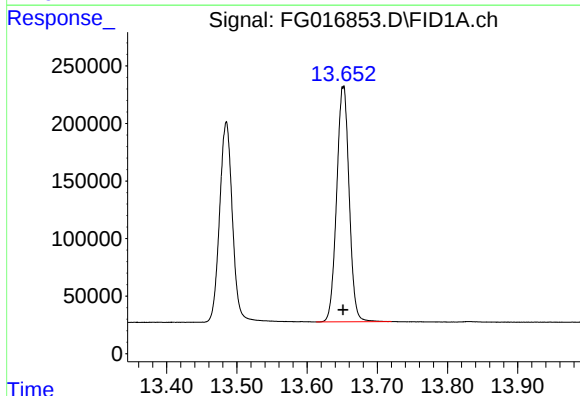
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



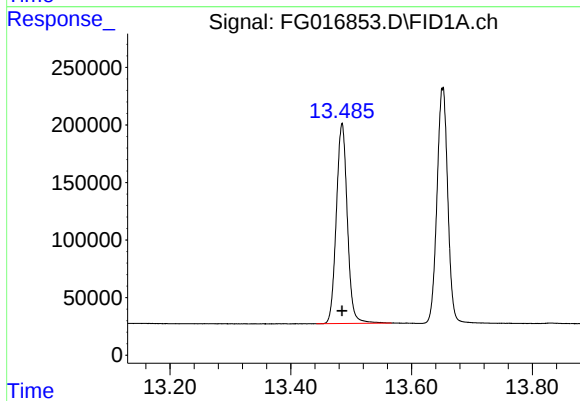
#10 n-Eicosane (C20)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 2540186
Conc: 18.17 ug/ml



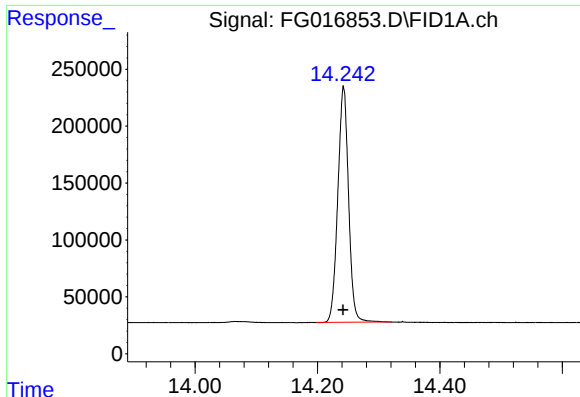
#11 n-Heneicosane (C21)

R.T.: 13.652 min
Delta R.T.: 0.000 min
Response: 2526929
Conc: 18.18 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.485 min
Delta R.T.: 0.000 min
Response: 2197563
Conc: 18.25 ug/ml



#13 n-Docosane (C22)

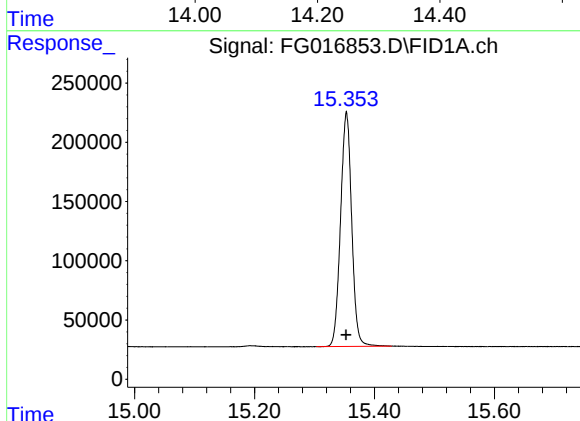
R.T.: 14.243 min
Delta R.T.: 0.000 min
Response: 2527708
Conc: 17.87 ug/ml

Instrument :

FID_G

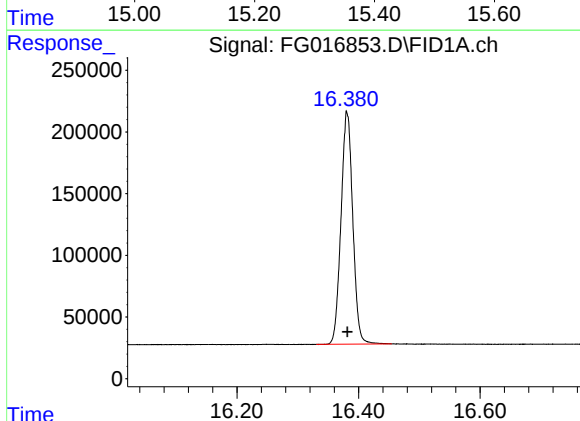
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



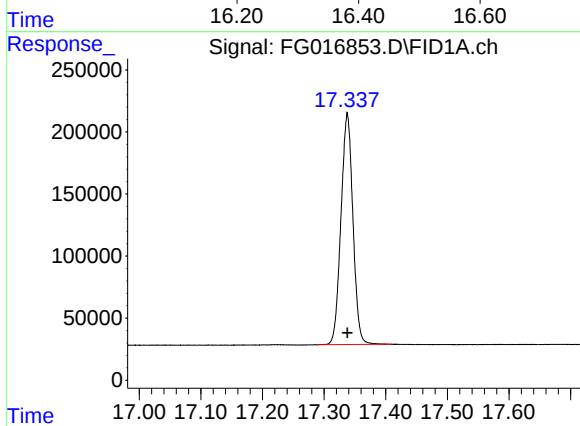
#14 n-Tetracosane (C24)

R.T.: 15.353 min
Delta R.T.: 0.000 min
Response: 2549263
Conc: 17.34 ug/ml



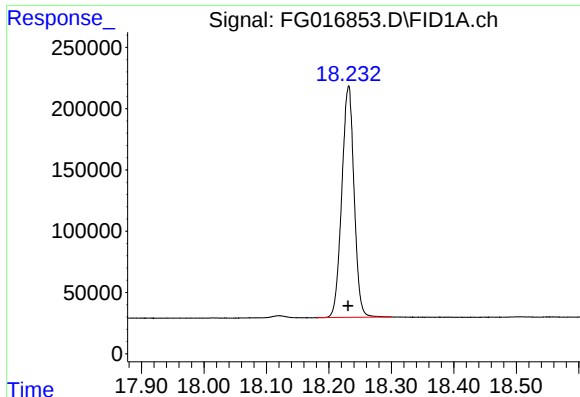
#15 n-Hexacosane (C26)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 2534590
Conc: 17.28 ug/ml



#16 n-Octacosane (C28)

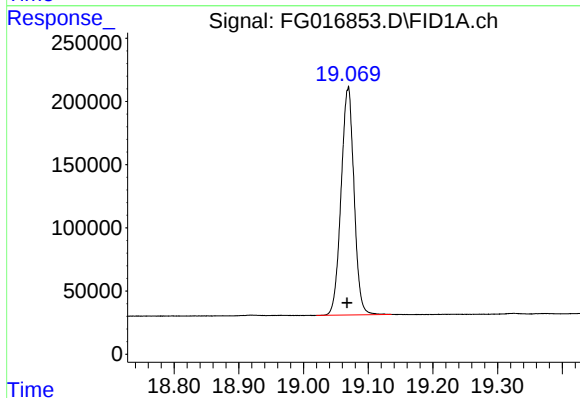
R.T.: 17.338 min
Delta R.T.: 0.000 min
Response: 2511002
Conc: 17.06 ug/ml



#17 n-Tricontane (C30)

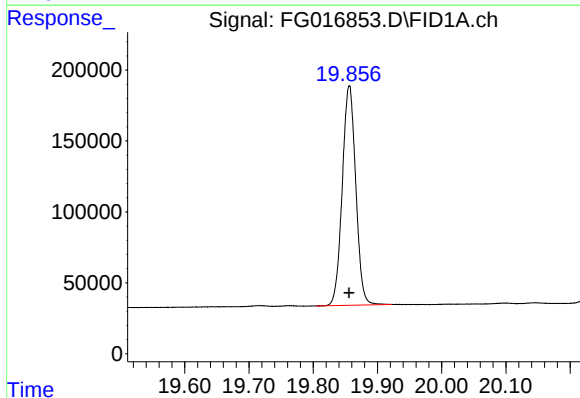
R.T.: 18.232 min
Delta R.T.: 0.000 min
Response: 2583310
Conc: 17.07 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



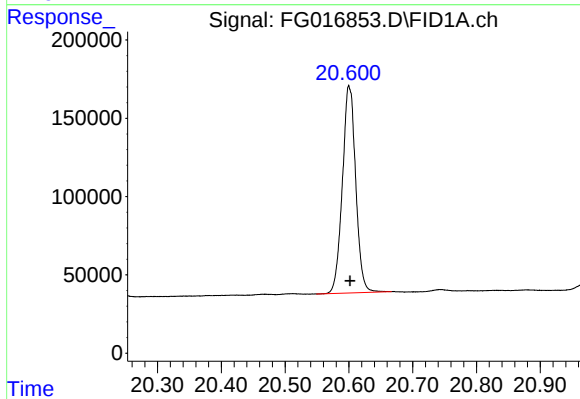
#18 n-Dotriacontane (C32)

R.T.: 19.069 min
Delta R.T.: 0.002 min
Response: 2504607
Conc: 16.99 ug/ml



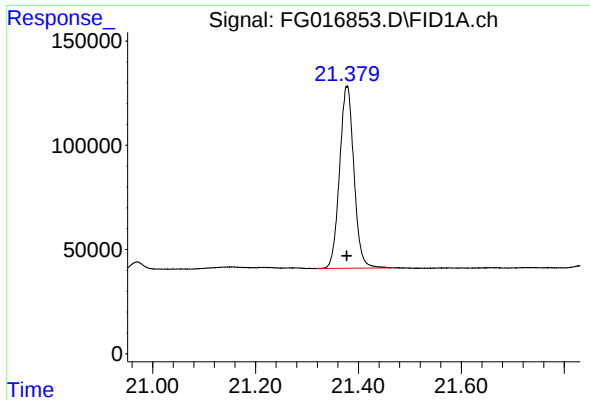
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 2261777
Conc: 17.55 ug/ml



#20 n-Hexatriacontane (C36)

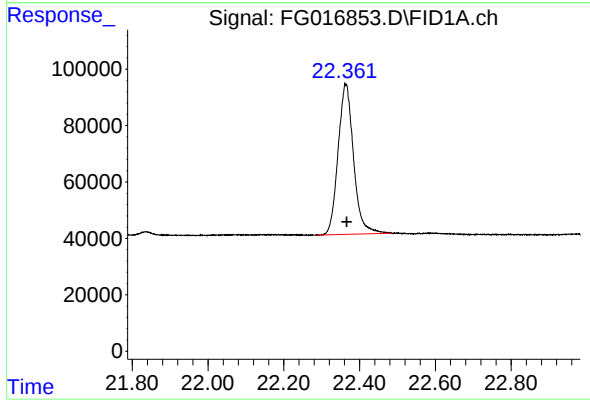
R.T.: 20.600 min
Delta R.T.: -0.001 min
Response: 1919405
Conc: 18.54 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.378 min
Delta R.T.: 0.000 min
Response: 1687771
Conc: 19.14 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.363 min
Delta R.T.: -0.004 min
Response: 1511163
Conc: 19.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102925AL\
Data File : FG016853.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2025 17:32
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.365	3.327	3.433	BB	232036	2333992	81.08%	4.494%
2	4.625	4.587	4.701	BB	234268	2380603	82.70%	4.584%
3	6.343	6.312	6.460	BB	221491	2445124	84.94%	4.708%
4	6.806	6.775	6.876	BB	235549	2412397	83.80%	4.645%
5	7.447	7.410	7.573	BB	190049	2263229	78.62%	4.358%
6	8.646	8.603	8.738	BB	214381	2364432	82.14%	4.552%
7	10.264	10.218	10.359	BB	205479	2446067	84.97%	4.710%
8	11.717	11.673	11.800	BB	212642	2558203	88.87%	4.925%
9	12.039	11.993	12.116	BB	259591	2878633	100.00%	5.542%
10	13.035	12.989	13.109	BB	210522	2540186	88.24%	4.891%
11	13.485	13.442	13.567	BB	174188	2197563	76.34%	4.231%
12	13.652	13.613	13.720	BB	203997	2526929	87.78%	4.865%
13	14.243	14.198	14.321	BB	206536	2527708	87.81%	4.867%
14	15.353	15.303	15.429	BB	198289	2549263	88.56%	4.908%
15	16.381	16.330	16.454	BB	187283	2534590	88.05%	4.880%
16	17.338	17.287	17.410	BB	186348	2511002	87.23%	4.835%
17	18.232	18.180	18.300	BB	189134	2583310	89.74%	4.974%
18	19.069	19.020	19.136	BB	180660	2504607	87.01%	4.822%
19	19.856	19.805	19.922	BB	154690	2261777	78.57%	4.355%
20	20.600	20.549	20.667	BB	132183	1919405	66.68%	3.696%
21	21.378	21.318	21.465	BB	86869	1687771	58.63%	3.250%
22	22.363	22.285	22.485	BB	52865	1511163	52.50%	2.910%
Sum of corrected areas:							51937956	

Aliphatic EPH 102925.M Thu Oct 30 04:34:21 2025

Continuing Calibration Report for SequenceID : FE111325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056809.D

Aliphatic C9-C12	9743491.000	60.000	3.214	6.836	162391.517	171162.641	5.124
Aliphatic C12-C16	6945744.000	40.000	6.837	10.282	173643.600	178754.319	2.859
Aliphatic C16-C21	10234988.000	60.000	10.283	13.654	170583.133	186505.496	8.537
Aliphatic C21-C28	13139664.000	80.000	13.655	17.323	164245.800	192766.144	14.795
Aliphatic C28-C40	17815224.000	120.000	17.324	22.256	148460.200	159314.647	6.813
Aliphatic EPH	57879111.000	360.000	3.214	22.256	160775.308	175414.751	8.346

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	13 Nov 2025 09:58
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056809.D	Misc:	
Instrument:	FID_E	ALS Vial:	4
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.214	6.836	9743491.000	60.000	ug/ml
Aliphatic C12-C16	6.837	10.282	6945744.000	40.000	ug/ml
Aliphatic C16-C21	10.283	13.654	10234988.000	60.000	ug/ml
Aliphatic C21-C28	13.655	17.323	13139664.000	80.000	ug/ml
Aliphatic C28-C40	17.324	22.256	17815224.000	120.000	ug/ml
Aliphatic EPH	3.214	22.256	57879111.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056809.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 09:58
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Nov 14 00:16:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.951	3773138	18.061 ug/ml
Spiked Amount 50.000		Recovery =	36.12%
12) S 1-chlorooctadecane (S...	13.388	2858514	17.742 ug/ml
Spiked Amount 50.000		Recovery =	35.48%
Target Compounds			
1) T n-Nonane (C9)	3.314	2958727	17.615 ug/ml
2) T n-Decane (C10)	4.566	3319583	19.346 ug/ml
3) T A~Naphthalene (C11.7)	6.280	3436145	18.616 ug/ml
4) T n-Dodecane (C12)	6.736	3465181	19.923 ug/ml
5) T A~2-methylnaphthalene...	7.379	3277245	18.492 ug/ml
6) T n-Tetradecane (C14)	8.570	3426522	19.630 ug/ml
7) T n-Hexadecane (C16)	10.182	3519222	19.235 ug/ml
8) T n-Octadecane (C18)	11.629	3554840	18.782 ug/ml
10) T n-Eicosane (C20)	12.941	3380449	18.139 ug/ml
11) T n-Heneicosane (C21)	13.554	3299699	17.945 ug/ml
13) T n-Docosane (C22)	14.142	3296167	17.608 ug/ml
14) T n-Tetracosane (C24)	15.248	3330451	17.004 ug/ml
15) T n-Hexacosane (C26)	16.271	3247448	16.710 ug/ml
16) T n-Octacosane (C28)	17.223	3265598	16.862 ug/ml
17) T n-Tricontane (C30)	18.113	3449775	17.206 ug/ml
18) T n-Dotriacontane (C32)	18.947	3492848	17.762 ug/ml
19) T n-Tetratriacontane (C34)	19.733	3187785	18.468 ug/ml
20) T n-Hexatriacontane (C36)	20.474	2736770	18.919 ug/ml
21) T n-Octatriacontane (C38)	21.222	2516754	19.996 ug/ml
22) T n-Tetracontane (C40)	22.156f	2431292	21.029 ug/ml

(f)=RT Delta > 1/2 Window

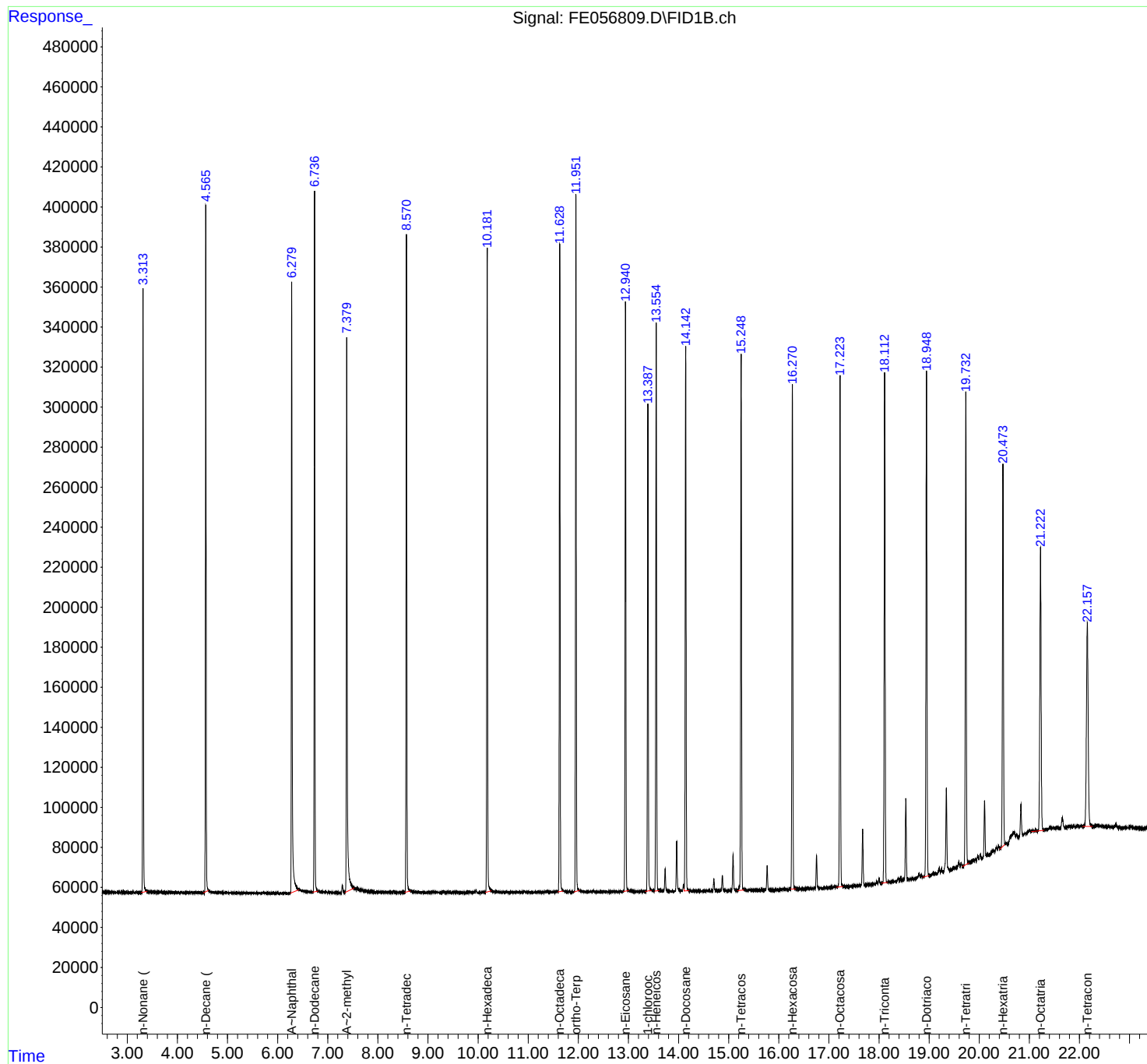
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056809.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 09:58
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 14 00:16:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056809.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 09:58
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.314	3.274	3.392	BB	301538	2958727	78.42%	4.154%
2	4.566	4.512	4.619	BBA	342997	3319583	87.98%	4.661%
3	6.280	6.250	6.424	BB	304181	3436145	91.07%	4.824%
4	6.736	6.695	6.809	BB	350775	3465181	91.84%	4.865%
5	7.379	7.345	7.522	BB	276502	3277245	86.86%	4.601%
6	8.570	8.535	8.652	BB	329202	3426522	90.81%	4.811%
7	10.182	10.145	10.265	BB	321995	3519222	93.27%	4.941%
8	11.629	11.587	11.702	BB	323665	3554840	94.21%	4.991%
9	11.951	11.912	12.024	BB	349958	3773138	100.00%	5.298%
10	12.941	12.897	13.000	BB	294832	3380449	89.59%	4.746%
11	13.388	13.334	13.459	BB	243370	2858514	75.76%	4.013%
12	13.554	13.519	13.614	BB	281309	3299699	87.45%	4.633%
13	14.142	14.111	14.207	VB	271077	3296167	87.36%	4.628%
14	15.248	15.177	15.310	BB	268971	3330451	88.27%	4.676%
15	16.271	16.234	16.337	BB	251850	3247448	86.07%	4.559%
16	17.223	17.152	17.287	BB	255939	3265598	86.55%	4.585%
17	18.113	18.050	18.172	BB	253585	3449775	91.43%	4.844%
18	18.947	18.870	19.005	BB	251555	3492848	92.57%	4.904%
19	19.733	19.667	19.797	BB	235972	3187785	84.49%	4.476%
20	20.474	20.412	20.512	BB	189776	2736770	72.53%	3.842%
21	21.222	21.040	21.295	BB	141267	2516754	66.70%	3.534%
22	22.156	22.062	22.262	BB	101810	2431292	64.44%	3.414%
Sum of corrected areas:							71224151	

Aliphatic EPH 103025.M Fri Nov 14 00:50:45 2025

Continuing Calibration Report for SequenceID : FE111325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056820.D

Aliphatic C9-C12	9917656.000	60.000	3.214	6.836	165294.267	171162.641	3.429
Aliphatic C12-C16	6829938.000	40.000	6.837	10.282	170748.450	178754.319	4.479
Aliphatic C16-C21	9772286.000	60.000	10.283	13.654	162871.433	186505.496	12.672
Aliphatic C21-C28	12525440.000	80.000	13.655	17.323	156568.000	192766.144	18.778
Aliphatic C28-C40	17000209.000	120.000	17.324	22.256	141668.408	159314.647	11.076
Aliphatic EPH	56045529.000	360.000	3.214	22.256	155682.025	175414.751	11.249

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	13 Nov 2025 16:00
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056820.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.214	6.836	9917656.000	60.000	ug/ml
Aliphatic C12-C16	6.837	10.282	6829938.000	40.000	ug/ml
Aliphatic C16-C21	10.283	13.654	9772286.000	60.000	ug/ml
Aliphatic C21-C28	13.655	17.323	12525440.000	80.000	ug/ml
Aliphatic C28-C40	17.324	22.256	17000209.000	120.000	ug/ml
Aliphatic EPH	3.214	22.256	56045529.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056820.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 16:00
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Nov 14 00:20:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.951	3627694	17.365 ug/ml
Spiked Amount 50.000		Recovery =	34.73%
12) S 1-chlorooctadecane (S...	13.388	2720214	16.883 ug/ml
Spiked Amount 50.000		Recovery =	33.77%
Target Compounds			
1) T n-Nonane (C9)	3.314	3156637	18.794 ug/ml
2) T n-Decane (C10)	4.565	3331933	19.418 ug/ml
3) T A~Naphthalene (C11.7)	6.280	3397436	18.406 ug/ml
4) T n-Dodecane (C12)	6.737	3429086	19.715 ug/ml
5) T A~2-methylnaphthalene...	7.379	3206087	18.091 ug/ml
6) T n-Tetradecane (C14)	8.570	3376361	19.343 ug/ml
7) T n-Hexadecane (C16)	10.181	3453577	18.876 ug/ml
8) T n-Octadecane (C18)	11.629	3435905	18.153 ug/ml
10) T n-Eicosane (C20)	12.941	3215543	17.254 ug/ml
11) T n-Heneicosane (C21)	13.554	3120838	16.972 ug/ml
13) T n-Docosane (C22)	14.142	3118204	16.657 ug/ml
14) T n-Tetracosane (C24)	15.247	3159275	16.130 ug/ml
15) T n-Hexacosane (C26)	16.271	3113009	16.019 ug/ml
16) T n-Octacosane (C28)	17.222	3134952	16.188 ug/ml
17) T n-Tricontane (C30)	18.112	3271889	16.319 ug/ml
18) T n-Dotriacontane (C32)	18.946	3287290	16.716 ug/ml
19) T n-Tetratriacontane (C34)	19.732	3025225	17.526 ug/ml
20) T n-Hexatriacontane (C36)	20.473	2647706	18.303 ug/ml
21) T n-Octatriacontane (C38)	21.222	2396298	19.039 ug/ml
22) T n-Tetracontane (C40)	22.156f	2371801	20.515 ug/ml

(f)=RT Delta > 1/2 Window

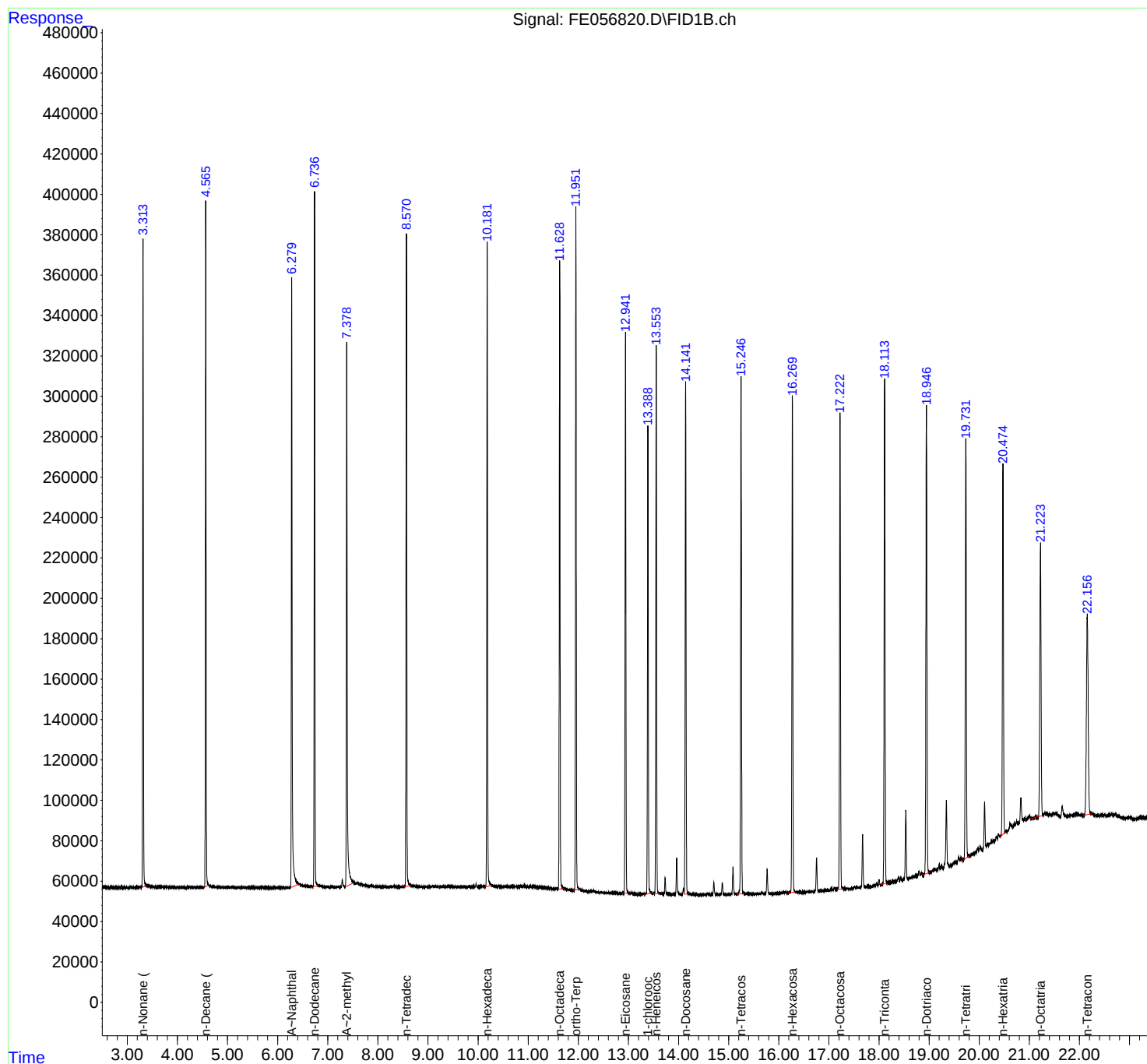
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056820.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 16:00
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 14 00:20:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056820.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 16:00
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.314	3.282	3.384	BB	320609	3156637	87.01%	4.575%
2	4.565	4.530	4.620	BBA	339862	3331933	91.85%	4.829%
3	6.280	6.247	6.424	BB	300047	3397436	93.65%	4.924%
4	6.737	6.702	6.810	BB	342751	3429086	94.53%	4.970%
5	7.379	7.345	7.524	BB	268670	3206087	88.38%	4.647%
6	8.570	8.525	8.650	BB	324640	3376361	93.07%	4.893%
7	10.181	10.145	10.270	BB	317976	3453577	95.20%	5.005%
8	11.629	11.590	11.705	BB	311032	3435905	94.71%	4.980%
9	11.951	11.902	12.022	BB	338164	3627694	100.00%	5.258%
10	12.941	12.882	13.002	BB	275848	3215543	88.64%	4.660%
11	13.388	13.322	13.462	BB	230961	2720214	74.98%	3.943%
12	13.554	13.489	13.610	BB	271734	3120838	86.03%	4.523%
13	14.142	14.110	14.200	VB	253371	3118204	85.96%	4.519%
14	15.247	15.159	15.305	BB	254549	3159275	87.09%	4.579%
15	16.271	16.202	16.330	BB	246586	3113009	85.81%	4.512%
16	17.222	17.159	17.285	BB	235659	3134952	86.42%	4.544%
17	18.112	18.049	18.162	BB	246906	3271889	90.19%	4.742%
18	18.946	18.869	19.004	BB	231071	3287290	90.62%	4.764%
19	19.732	19.665	19.799	BB	206983	3025225	83.39%	4.385%
20	20.473	20.420	20.512	BV	182758	2647706	72.99%	3.837%
21	21.222	21.040	21.269	BB	134151	2396298	66.06%	3.473%
22	22.156	22.075	22.237	BB	98844	2371801	65.38%	3.438%
Sum of corrected areas:							68996959	

Aliphatic EPH 103025.M Fri Nov 14 04:29:18 2025

Continuing Calibration Report for SequenceID : FG111225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FG016878.D

Aliphatic C9-C12	8051141.000	60.000	3.261	6.902	134185.683	122003.227	-9.985
Aliphatic C12-C16	5513270.000	40.000	6.903	10.360	137831.750	122851.240	-12.194
Aliphatic C16-C21	8697375.000	60.000	10.361	13.749	144956.250	132396.253	-9.487
Aliphatic C21-C28	11593691.000	80.000	13.750	17.437	144921.138	139034.659	-4.234
Aliphatic C28-C40	13716515.000	120.000	17.438	22.463	114304.292	113794.545	-0.448
Aliphatic EPH	47571992.000	360.000	3.261	22.463	132144.422	124878.157	-5.819

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	12 Nov 2025 13:15
Client Sample ID:		Operator:	YP\AJ
Data file:	FG016878.D	Misc:	
Instrument:	FID_G	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.261	6.902	8051141.000	60.000	ug/ml
Aliphatic C12-C16	6.903	10.360	5513270.000	40.000	ug/ml
Aliphatic C16-C21	10.361	13.749	8697375.000	60.000	ug/ml
Aliphatic C21-C28	13.750	17.437	11593691.000	80.000	ug/ml
Aliphatic C28-C40	17.438	22.463	13716515.000	120.000	ug/ml
Aliphatic EPH	3.261	22.463	47571992.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
 Data File : FG016878.D
 Signal(s) : FID1A.ch
 Acq On : 12 Nov 2025 13:15
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Nov 13 14:05:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 16:21:47 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.038	3292750	20.849 ug/ml
Spiked Amount 50.000		Recovery =	41.70%
12) S 1-chlorooctadecane (S...	13.484	2501034	20.767 ug/ml
Spiked Amount 50.000		Recovery =	41.53%
Target Compounds			
1) T n-Nonane (C9)	3.362	2610217	20.951 ug/ml
2) T n-Decane (C10)	4.622	2696893	21.066 ug/ml
3) T A~Naphthalene (C11.7)	6.341	2800523	21.404 ug/ml
4) T n-Dodecane (C12)	6.804	2744031	21.046 ug/ml
5) T A~2-methylnaphthalene...	7.444	2626665	21.827 ug/ml
6) T n-Tetradecane (C14)	8.643	2709234	21.207 ug/ml
7) T n-Hexadecane (C16)	10.262	2804036	21.221 ug/ml
8) T n-Octadecane (C18)	11.715	2918123	20.940 ug/ml
10) T n-Eicosane (C20)	13.035	2896092	20.719 ug/ml
11) T n-Heneicosane (C21)	13.651	2883160	20.737 ug/ml
13) T n-Docosane (C22)	14.242	2897039	20.477 ug/ml
14) T n-Tetracosane (C24)	15.354	2936782	19.974 ug/ml
15) T n-Hexacosane (C26)	16.383	2899825	19.766 ug/ml
16) T n-Octacosane (C28)	17.339	2860045	19.428 ug/ml
17) T n-Tricontane (C30)	18.232	2890752	19.104 ug/ml
18) T n-Dotriacontane (C32)	19.070	2794596	18.958 ug/ml
19) T n-Tetratriacontane (C34)	19.859	2483300	19.270 ug/ml
20) T n-Hexatriacontane (C36)	20.603	2099497	20.284 ug/ml
21) T n-Octatriacontane (C38)	21.380	1806493	20.491 ug/ml
22) T n-Tetracontane (C40)	22.364	1641877	20.969 ug/ml

(f)=RT Delta > 1/2 Window

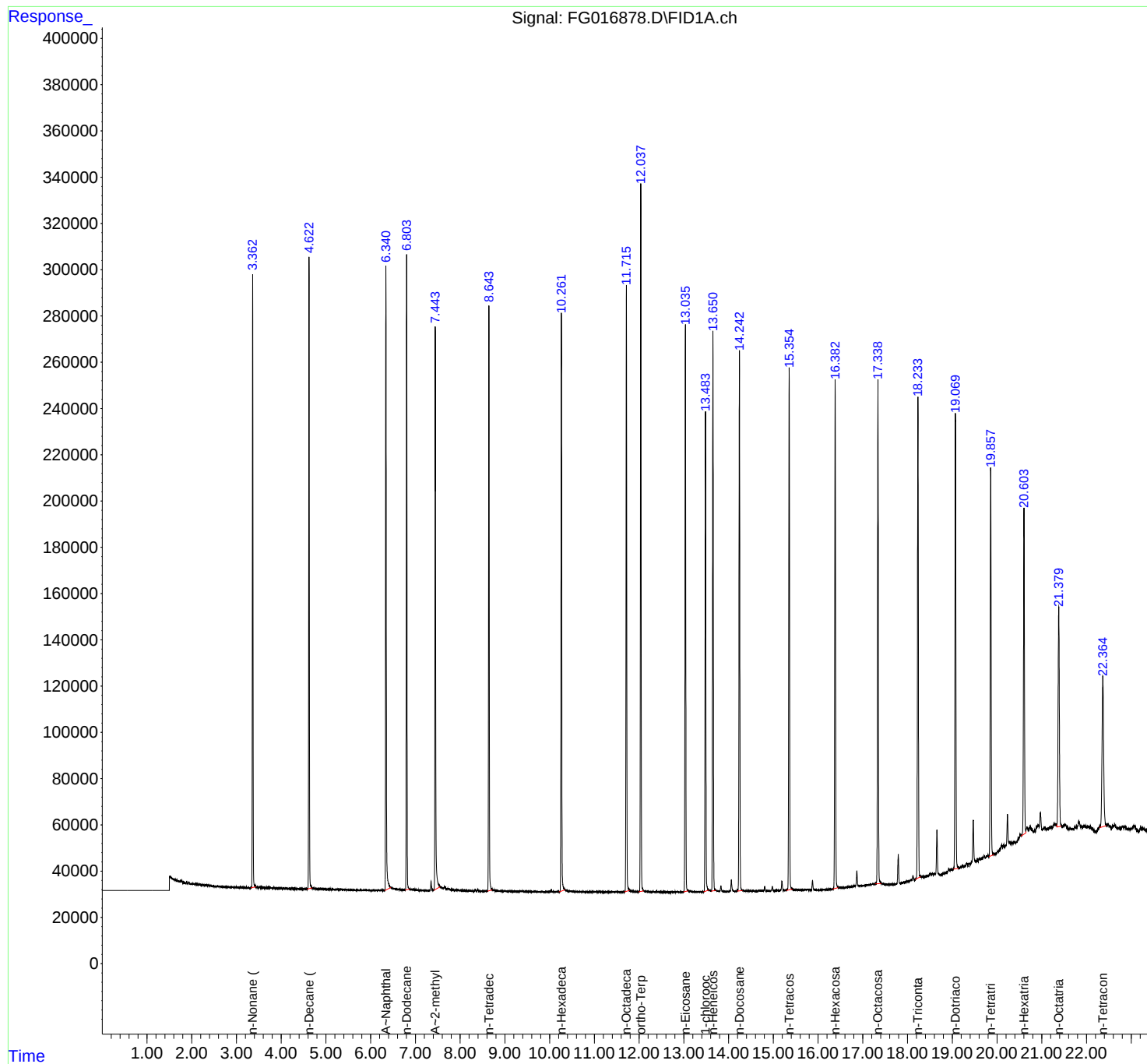
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
Data File : FG016878.D
Signal(s) : FID1A.ch
Acq On : 12 Nov 2025 13:15
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 13 14:05:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 16:21:47 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
Data File : FG016878.D
Signal(s) : FID1A.ch
Acq On : 12 Nov 2025 13:15
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH
102925.M

Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.362	3.320	3.433	BB	265083	2610217	79.27%	4.440%
2	4.622	4.580	4.690	BB	272807	2696893	81.90%	4.587%
3	6.341	6.313	6.452	BB	269756	2800523	85.05%	4.763%
4	6.804	6.770	6.867	BB	274564	2744031	83.34%	4.667%
5	7.444	7.412	7.552	BB	243113	2626665	79.77%	4.468%
6	8.643	8.610	8.721	BB	252928	2709234	82.28%	4.608%
7	10.262	10.216	10.343	BB	248739	2804036	85.16%	4.769%
8	11.715	11.668	11.788	BB	261832	2918123	88.62%	4.963%
9	12.038	11.994	12.106	BB	305074	3292750	100.00%	5.601%

rteres

10	13.035	12.990	13.095	BB	244696	2896092	87.95%	4.926%
11	13.484	13.440	13.558	BB	207437	2501034	75.96%	4.254%
12	13.651	13.613	13.711	BB	241814	2883160	87.56%	4.904%
13	14.242	14.210	14.312	VB	233493	2897039	87.98%	4.928%
14	15.354	15.290	15.422	BB	225944	2936782	89.19%	4.995%
15	16.383	16.327	16.451	BB	219472	2899825	88.07%	4.932%
16	17.339	17.281	17.415	BB	217577	2860045	86.86%	4.865%
17	18.232	18.175	18.293	BB	207575	2890752	87.79%	4.917%
18	19.070	19.024	19.139	BB	194211	2794596	84.87%	4.753%
19	19.859	19.816	19.933	BB	166839	2483300	75.42%	4.224%
20	20.603	20.543	20.644	BV	140983	2099497	63.76%	3.571%
21	21.380	21.337	21.439	VV	94907	1806493	54.86%	3.073%
22	22.364	22.303	22.440	VV	65233	1641877	49.86%	2.793%

Sum of corrected areas: 58792965

Aliphatic EPH 102925.M Thu Nov 13 14:31:28 2025

Continuing Calibration Report for SequenceID : FG111225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FG016892.D

Aliphatic C9-C12	8029520.000	60.000	3.261	6.902	133825.333	122003.227	-9.690
Aliphatic C12-C16	5544274.000	40.000	6.903	10.360	138606.850	122851.240	-12.825
Aliphatic C16-C21	8549820.000	60.000	10.361	13.749	142497.000	132396.253	-7.629
Aliphatic C21-C28	10930608.000	80.000	13.750	17.437	136632.600	139034.659	1.728
Aliphatic C28-C40	13111556.000	120.000	17.438	22.463	109262.967	113794.545	3.982
Aliphatic EPH	46165778.000	360.000	3.261	22.463	128238.272	124878.157	-2.691

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	12 Nov 2025 21:21
Client Sample ID:		Operator:	YPAJ
Data file:	FG016892.D	Misc:	
Instrument:	FID_G	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.261	6.902	8029520.000	60.000	ug/ml
Aliphatic C12-C16	6.903	10.360	5544274.000	40.000	ug/ml
Aliphatic C16-C21	10.361	13.749	8549820.000	60.000	ug/ml
Aliphatic C21-C28	13.750	17.437	10930608.000	80.000	ug/ml
Aliphatic C28-C40	17.438	22.463	13111556.000	120.000	ug/ml
Aliphatic EPH	3.261	22.463	46165778.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
 Data File : FG016892.D
 Signal(s) : FID1A.ch
 Acq On : 12 Nov 2025 21:21
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Nov 14 03:59:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 29 16:21:47 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.040	3217948	20.376 ug/ml
Spiked Amount 50.000		Recovery =	40.75%
12) S 1-chlorooctadecane (S...	13.485	2428864	20.168 ug/ml
Spiked Amount 50.000		Recovery =	40.34%
Target Compounds			
1) T n-Nonane (C9)	3.364	2591489	20.800 ug/ml
2) T n-Decane (C10)	4.624	2686863	20.987 ug/ml
3) T A~Naphthalene (C11.7)	6.343	2791099	21.332 ug/ml
4) T n-Dodecane (C12)	6.805	2751168	21.100 ug/ml
5) T A~2-methylnaphthalene...	7.446	2643222	21.965 ug/ml
6) T n-Tetradecane (C14)	8.645	2725265	21.332 ug/ml
7) T n-Hexadecane (C16)	10.264	2819009	21.334 ug/ml
8) T n-Octadecane (C18)	11.717	2907758	20.866 ug/ml
10) T n-Eicosane (C20)	13.036	2840676	20.323 ug/ml
11) T n-Heneicosane (C21)	13.652	2801386	20.149 ug/ml
13) T n-Docosane (C22)	14.243	2787664	19.704 ug/ml
14) T n-Tetracosane (C24)	15.354	2786708	18.954 ug/ml
15) T n-Hexacosane (C26)	16.382	2706693	18.449 ug/ml
16) T n-Octacosane (C28)	17.341	2649543	17.999 ug/ml
17) T n-Tricontane (C30)	18.234	2711173	17.917 ug/ml
18) T n-Dotriacontane (C32)	19.072	2633451	17.865 ug/ml
19) T n-Tetratriacontane (C34)	19.860	2357560	18.295 ug/ml
20) T n-Hexatriacontane (C36)	20.604	1985927	19.187 ug/ml
21) T n-Octatriacontane (C38)	21.382	1746257	19.808 ug/ml
22) T n-Tetracontane (C40)	22.368	1677188	21.420 ug/ml

(f)=RT Delta > 1/2 Window

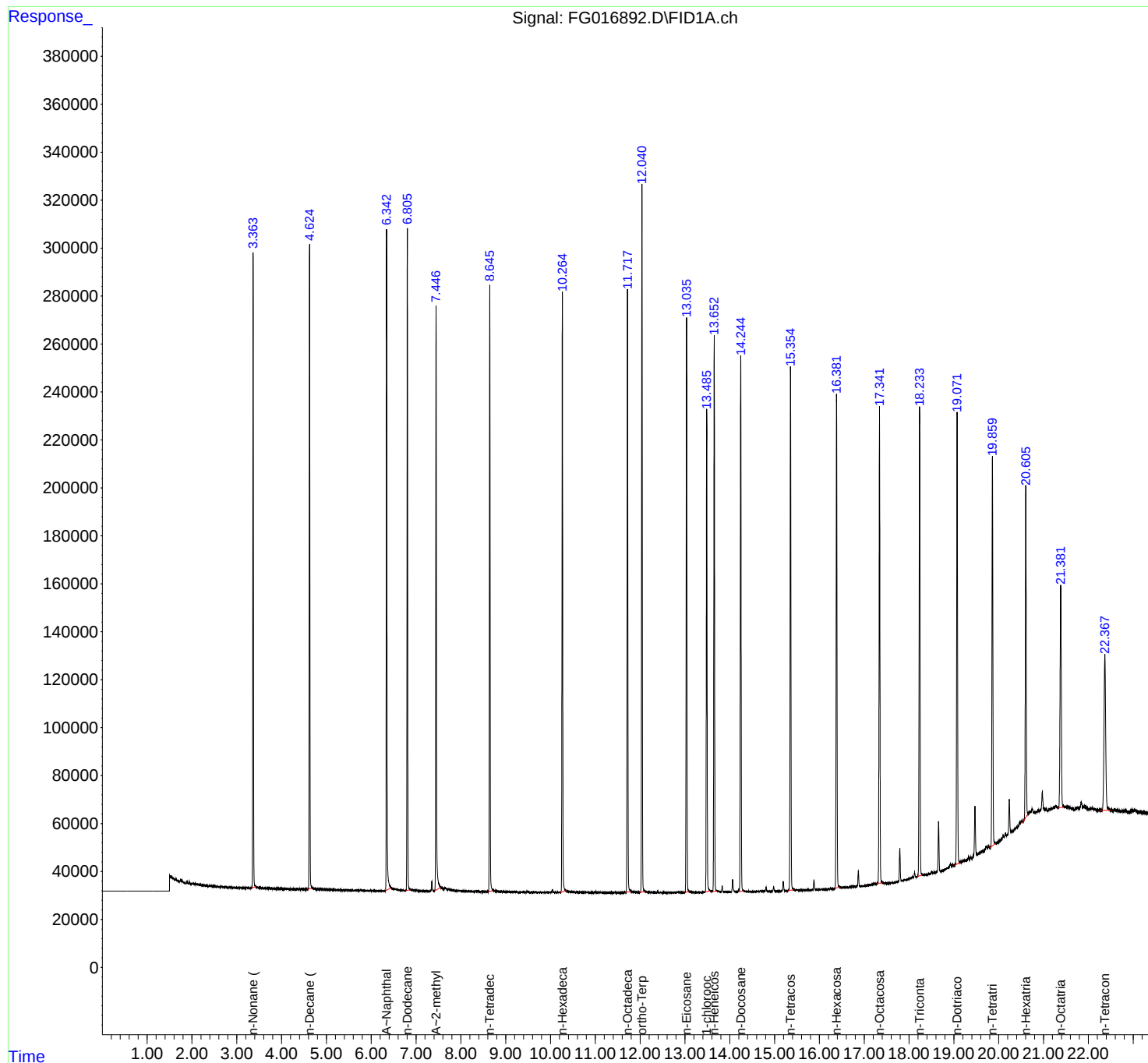
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
Data File : FG016892.D
Signal(s) : FID1A.ch
Acq On : 12 Nov 2025 21:21
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 14 03:59:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102925.M
Quant Title : GC Extractables
QLast Update : Wed Oct 29 16:21:47 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111225AL\
Data File : FG016892.D
Signal(s) : FID1A.ch
Acq On : 12 Nov 2025 21:21
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH
102925.M

Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.364	3.327	3.425	BB	264784	2591489	80.53%	4.527%
2	4.624	4.585	4.684	BB	268522	2686863	83.50%	4.693%
3	6.343	6.310	6.441	BB	274537	2791099	86.74%	4.876%
4	6.805	6.772	6.869	BB	276401	2751168	85.49%	4.806%
5	7.446	7.409	7.549	BB	243575	2643222	82.14%	4.617%
6	8.645	8.613	8.723	BB	252693	2725265	84.69%	4.761%
7	10.264	10.219	10.340	BB	250247	2819009	87.60%	4.924%
8	11.717	11.672	11.788	BB	250742	2907758	90.36%	5.079%
9	12.040	11.995	12.109	BB	295090	3217948	100.00%	5.621%

rteres								
10	13.036	12.993	13.095	BB	239663	2840676	88.28%	4.962%
11	13.485	13.437	13.560	BB	201320	2428864	75.48%	4.243%
12	13.652	13.615	13.712	BB	230931	2801386	87.06%	4.894%
13	14.244	14.210	14.306	VB	223191	2787664	86.63%	4.870%
14	15.354	15.293	15.420	BB	217921	2786708	86.60%	4.868%
15	16.382	16.335	16.450	BB	204570	2706693	84.11%	4.728%
16	17.341	17.290	17.410	BB	198255	2649543	82.34%	4.628%
17	18.234	18.184	18.297	BB	194237	2711173	84.25%	4.736%
18	19.072	19.013	19.139	BB	187551	2633451	81.84%	4.600%
19	19.860	19.805	19.923	BB	161428	2357560	73.26%	4.118%
20	20.604	20.540	20.650	PB	136889	1985927	61.71%	3.469%
21	21.382	21.324	21.455	BB	92252	1746257	54.27%	3.050%
22	22.368	22.271	22.504	BB	65014	1677188	52.12%	2.930%
Sum of corrected areas:					57246911			

Aliphatic EPH 102925.M Fri Nov 14 04:16:33 2025



QC SAMPLE DATA

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	PB170504BL	SDG No.:	Q3604
Lab Sample ID:	PB170504BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FE056810.D	11/13/25 10:28	PB170504
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	4.00	mg/kg	FE056810.D	11/13/25 10:28	PB170504
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg			
Total EPH	Total EPH	2.09	U		2.09	6.00	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	PB170504BL	SDG No.:	Q3604
Lab Sample ID:	PB170504BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 g	Final Vol:	2000 uL
Prep Method :		Prep Date	11/12/25
		Test:	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	4.00	mg/kg	11/13/25	PB170504
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	11/13/25	PB170504
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	28.2			40 - 140	56%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	34.4			40 - 140	69%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170504BL	Acq On:	13 Nov 2025 10:28
Client Sample ID:	PB170504BL	Operator:	YP\AJ
Data file:	FE056810.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.836	0	0	300	ug/ml
Aliphatic C12-C16	6.837	10.282	0	0	200	ug/ml
Aliphatic C16-C21	10.283	13.654	0	0	300	ug/ml
Aliphatic C21-C28	13.655	17.323	0	0	400	ug/ml
Aliphatic C28-C40	17.324	22.256	0	0	600	ug/ml
Aliphatic EPH	3.214	22.256	0	0		ug/ml
ortho-Terphenyl (SURR)	11.952	11.952	7179974	34.37		ug/ml
1-chlorooctadecane (SURR)	13.390	13.390	4543065	28.2		ug/ml
Aliphatic C9-C28	3.214	17.323	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056810.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 10:28
 Operator : YP\AJ
 Sample : PB170504BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB170504BL

Integration File: sample.E
 Quant Time: Nov 14 00:16:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.952	7179974	34.368 ug/ml
Spiked Amount 50.000		Recovery =	68.74%
12) S 1-chlorooctadecane (S...	13.390	4543065	28.197 ug/ml
Spiked Amount 50.000		Recovery =	56.39%

Target Compounds

(f)=RT Delta > 1/2 Window

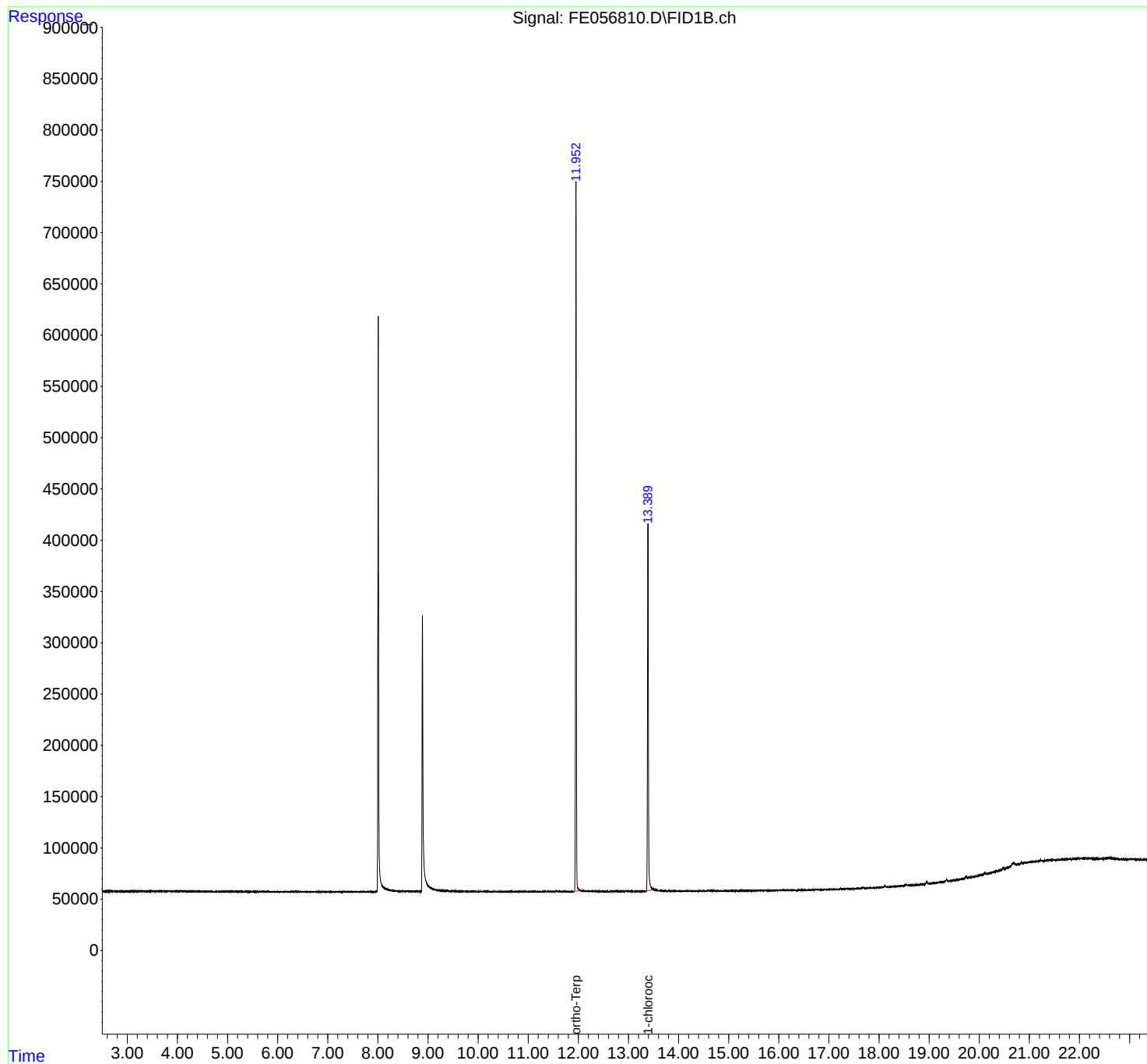
(m)=manual int.

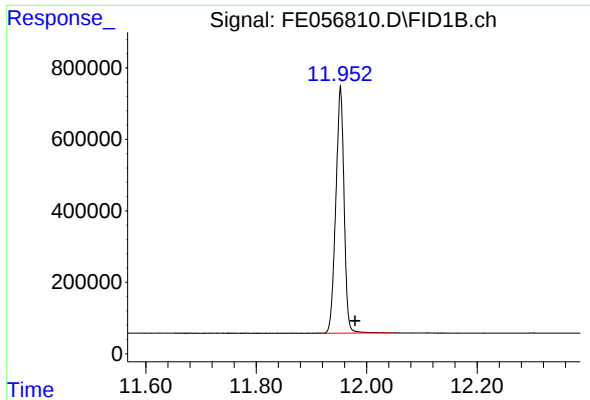
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056810.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 10:28
Operator : YP\AJ
Sample : PB170504BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB170504BL

Integration File: sample.E
Quant Time: Nov 14 00:16:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

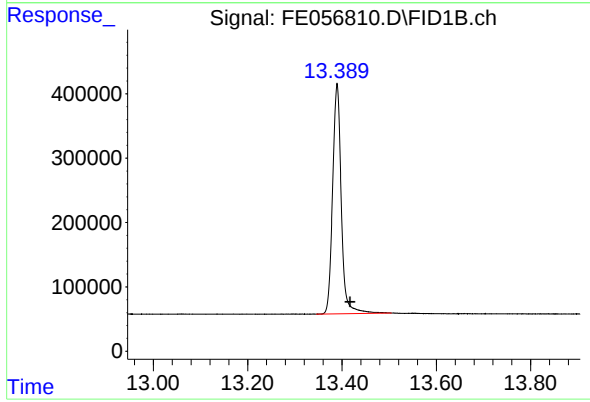




#9 ortho-Terphenyl (SURR)

R.T.: 11.952 min
Delta R.T.: -0.026 min
Response: 7179974
Conc: 34.37 ug/ml

Instrument :
FID_E
ClientSampleId :
PB170504BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.390 min
Delta R.T.: -0.028 min
Response: 4543065
Conc: 28.20 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056810.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 10:28
Sample : PB170504BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.952	11.908	12.045	BB	686783	7179974	100.00%	61.247%
2	13.390	13.345	13.505	BB	358253	4543065	63.27%	38.753%
Sum of corrected areas:							11723038	

Aliphatic EPH 103025.M Fri Nov 14 00:51:04 2025

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	PB170504BS	SDG No.:	Q3604
Lab Sample ID:	PB170504BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	19.6		1	1.18	2.00	mg/kg	FE056811.D	11/13/25 10:59	PB170504
Aliphatic C9-C28	Aliphatic C9-C28	65.6		1	0.91	3.99	mg/kg	FE056811.D	11/13/25 10:59	PB170504
Total AliphaticEPH	Total AliphaticEPH	85.2			2.09	5.99	mg/kg			
Total EPH	Total EPH	85.2			2.09	5.99	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	PB170504BS	SDG No.:	Q3604
Lab Sample ID:	PB170504BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 g	Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF
		Prep Date	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	65.6	1		0.91	3.99	mg/kg	11/13/25	PB170504
Aliphatic C28-C40	Aliphatic C28-C40	19.6	1		1.18	2.00	mg/kg	11/13/25	PB170504
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	29.5			40 - 140	59%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	33.7			40 - 140	67%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170504BS	Acq On:	13 Nov 2025 10:59
Client Sample ID:	PB170504BS	Operator:	YP\AJ
Data file:	FE056811.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.836	30902600	180.545	300	ug/ml
Aliphatic C12-C16	6.837	10.282	42148195	235.788	200	ug/ml
Aliphatic C16-C21	10.283	13.654	48731110	261.285	300	ug/ml
Aliphatic C21-C28	13.655	17.323	59447114	308.39	400	ug/ml
Aliphatic C28-C40	17.324	22.256	46953028	294.719	600	ug/ml
Aliphatic EPH	3.214	22.256	228182047	1280		ug/ml
ortho-Terphenyl (SURR)	11.953	11.953	7033482	33.67		ug/ml
1-chlorooctadecane (SURR)	13.390	13.390	4750402	29.48		ug/ml
Aliphatic C9-C28	3.214	17.323	181229019	986.008	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056811.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 10:59
 Operator : YP\AJ
 Sample : PB170504BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB170504BS

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/14/2025
 Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
 Quant Time: Nov 14 00:16:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.953	7033482	33.667 ug/ml
Spiked Amount 50.000		Recovery =	67.33%
12) S 1-chlorooctadecane (S...	13.390	4750402	29.484 ug/ml
Spiked Amount 50.000		Recovery =	58.97%
Target Compounds			
1) T n-Nonane (C9)	3.323	5394863	32.119 ug/ml
2) T n-Decane (C10)	4.571	5700685	33.222 ug/mlm
3) T A~Naphthalene (C11.7)	6.282	6967443	37.747 ug/ml
4) T n-Dodecane (C12)	6.738	6118898	35.180 ug/ml
5) T A~2-methylnaphthalene...	7.380	6362036	35.899 ug/ml
6) T n-Tetradecane (C14)	8.572	6460555	37.012 ug/ml
7) T n-Hexadecane (C16)	10.183	6697941	36.609 ug/ml
8) T n-Octadecane (C18)	11.630	6769506	35.766 ug/ml
10) T n-Eicosane (C20)	12.943	6692797	35.913 ug/ml
11) T n-Heneicosane (C21)	13.556	6543581	35.586 ug/ml
13) T n-Docosane (C22)	14.144	6430873	34.353 ug/ml
14) T n-Tetracosane (C24)	15.251	13649000	69.686 ug/ml
15) T n-Hexacosane (C26)	16.275	6115628	31.469 ug/ml
16) T n-Octacosane (C28)	17.225	6306541	32.565 ug/ml
17) T n-Tricontane (C30)	18.116	5770936	28.783 ug/ml
18) T n-Dotriacontane (C32)	18.947	5572545	28.337 ug/ml
19) T n-Tetratriacontane (C34)	19.733	4733302	27.422 ug/ml
20) T n-Hexatriacontane (C36)	20.474	3686666	25.486 ug/ml
21) T n-Octatriacontane (C38)	21.222	2923142	23.225 ug/ml
22) T n-Tetracontane (C40)	22.156f	2456004	21.243 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056811.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 10:59
Operator : YP\AJ
Sample : PB170504BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

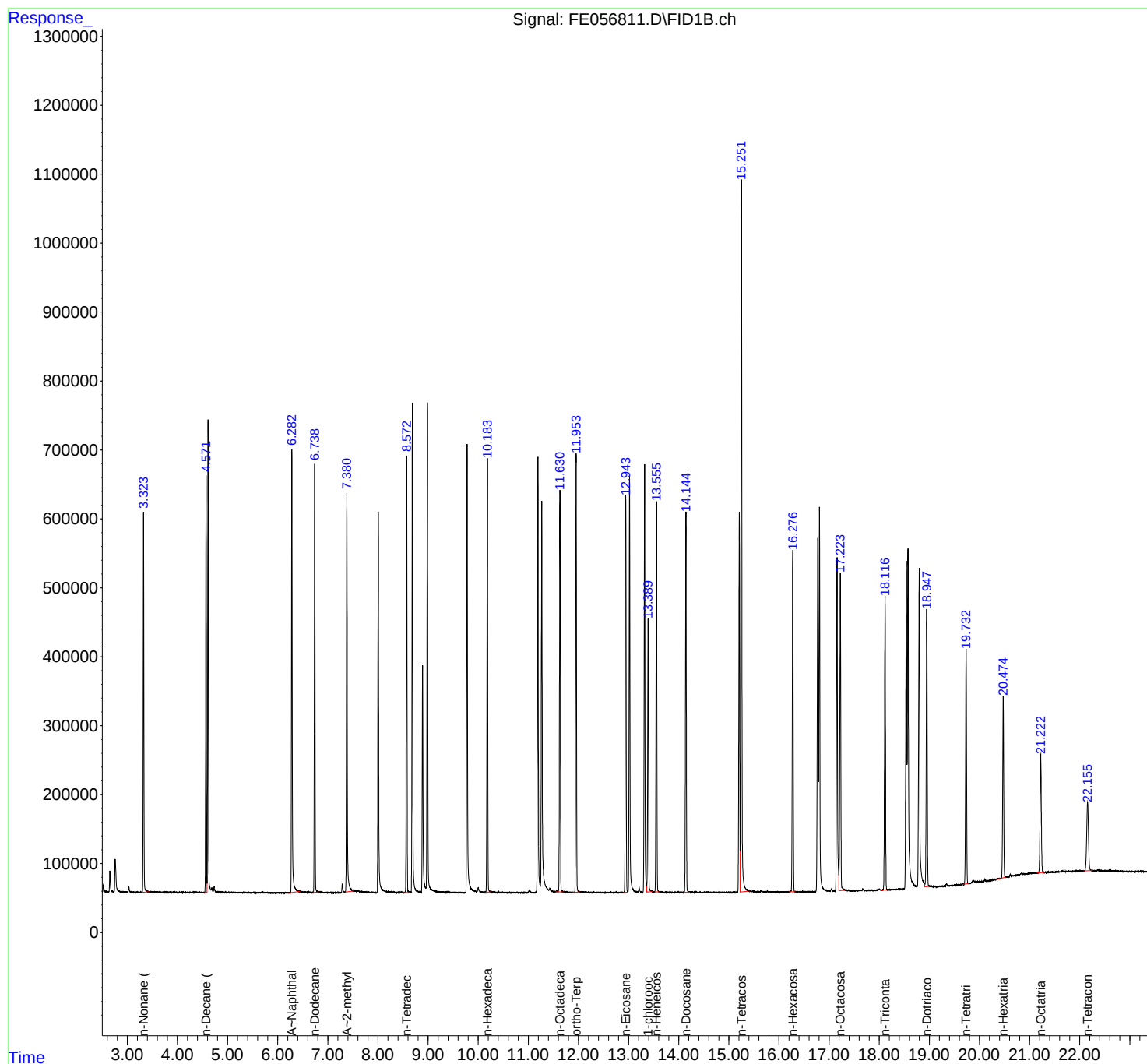
Instrument :
FID_E
ClientSampleId :
PB170504BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
Quant Time: Nov 14 00:16:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Instrument :

FID_E

ClientSampleId :

PB170504BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11132
Data File : FE056811.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 10:59
Sample : PB170504BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.323	3.292	3.430	BB	551265	5394863	39.53%	2.248%
2	4.571	4.543	4.590	M	604698	5700098	41.76%	2.375%
3	4.610	4.591	4.641	M	685960	6721298	49.24%	2.801%
4	6.282	6.225	6.438	BB	642136	6967443	51.05%	2.904%
5	6.738	6.705	6.815	BB	621925	6118898	44.83%	2.550%
6	7.380	7.343	7.512	BV	578778	6362036	46.61%	2.651%
7	8.572	8.507	8.638	BB	635153	6460555	47.33%	2.692%
8	8.686	8.653	8.813	BB	712574	7450458	54.59%	3.105%
9	8.986	8.956	9.140	VB	708193	7640360	55.98%	3.184%
10	9.778	9.713	9.953	BB	651912	7536845	55.22%	3.141%
11	10.183	10.145	10.255	BB	630219	6697941	49.07%	2.791%
12	11.191	11.122	11.240	BV	627366	7164207	52.49%	2.986%
13	11.267	11.240	11.412	VV	567198	7375667	54.04%	3.074%
14	11.630	11.537	11.712	BB	583309	6769506	49.60%	2.821%
15	11.953	11.885	12.030	BB	637344	7033482	51.53%	2.931%
16	12.943	12.897	12.987	BV	576813	6692797	49.04%	2.789%
17	13.019	12.987	13.157	VB	602520	7136833	52.29%	2.974%
18	13.319	13.278	13.362	BV	625232	7048519	51.64%	2.937%
19	13.390	13.362	13.482	VB	392274	4750402	34.80%	1.980%
20	13.556	13.517	13.622	BB	560660	6543581	47.94%	2.727%
21	14.144	14.105	14.225	BB	551222	6430873	47.12%	2.680%
22	15.208	15.162	15.226	BV	553379	6482080	47.49%	2.701%
23	15.251	15.226	15.412	VB	1031896	13649000	100.00%	5.688%
24	16.275	16.195	16.330	BB	489532	6115628	44.81%	2.549%
25	16.775	16.728	16.790	BV	512240	6642181	48.66%	2.768%
26	16.808	16.790	16.937	VB	556760	7278881	53.33%	3.033%
27	17.159	17.120	17.194	BV	483175	6541930	47.93%	2.726%
28	17.225	17.194	17.325	VB	453876	6306541	46.21%	2.628%
29	18.116	18.045	18.167	BB	427048	5770936	42.28%	2.405%
30	18.540	18.472	18.555	BV	474045	6515626	47.74%	2.715%
31	18.573	18.555	18.753	VV	493475	7946492	58.22%	3.312%
32	18.798	18.753	18.908	VV	465005	7348315	53.84%	3.062%
33	18.947	18.908	19.007	VB	400995	5572545	40.83%	2.322%
34	19.733	19.660	19.782	BB	339623	4733302	34.68%	1.972%
35	20.474	20.332	20.523	BB	264169	3686666	27.01%	1.536%
36	21.222	21.145	21.297	BB	171199	2923142	21.42%	1.218%

37 22.156 22.075 22.253 BB 98794 2456004 17.99% 1.023%
rteres
Sum of corrected areas: 2399

Aliphatic EPH 103025.M Fri Nov 14 00:52:14 2025

Instrument :

FID_E

ClientSampleId :

PB170504BS

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	PB170504BSD	SDG No.:	Q3604
Lab Sample ID:	PB170504BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	20.5		1	1.18	2.00	mg/kg	FE056812.D	11/13/25 11:29	PB170504
Aliphatic C9-C28	Aliphatic C9-C28	66.4		1	0.91	3.99	mg/kg	FE056812.D	11/13/25 11:29	PB170504
Total AliphaticEPH	Total AliphaticEPH	86.9			2.09	5.99	mg/kg			
Total EPH	Total EPH	86.9			2.09	5.99	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	PB170504BSD	SDG No.:	Q3604
Lab Sample ID:	PB170504BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 g	Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF
		Prep Date	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	66.4	1		0.91	3.99	mg/kg	11/13/25	PB170504
Aliphatic C28-C40	Aliphatic C28-C40	20.5	1		1.18	2.00	mg/kg	11/13/25	PB170504
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	29.8			40 - 140	60%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	34.0			40 - 140	68%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170504BSD	Acq On:	13 Nov 2025 11:29
Client Sample ID:	PB170504BSD	Operator:	YP\AJ
Data file:	FE056812.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.836	31239508	182.514	300	ug/ml
Aliphatic C12-C16	6.837	10.282	42618369	238.419	200	ug/ml
Aliphatic C16-C21	10.283	13.654	49090322	263.211	300	ug/ml
Aliphatic C21-C28	13.655	17.323	60156307	312.069	400	ug/ml
Aliphatic C28-C40	17.324	22.256	48930299	307.13	600	ug/ml
Aliphatic EPH	3.214	22.256	232034805	1300		ug/ml
ortho-Terphenyl (SURR)	11.953	11.953	7104401	34.01		ug/ml
1-chlorooctadecane (SURR)	13.390	13.390	4792946	29.75		ug/ml
Aliphatic C9-C28	3.214	17.323	183104506	996.213	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056812.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 11:29
 Operator : YP\AJ
 Sample : PB170504BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB170504BSD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/14/2025
 Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
 Quant Time: Nov 14 00:17:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.953	7104401	34.007 ug/ml
Spiked Amount 50.000		Recovery =	68.01%
12) S 1-chlorooctadecane (S...	13.390	4792946	29.748 ug/ml
Spiked Amount 50.000		Recovery =	59.50%
Target Compounds			
1) T n-Nonane (C9)	3.324	5429780	32.327 ug/ml
2) T n-Decane (C10)	4.571	5775262	33.657 ug/mlm
3) T A~Naphthalene (C11.7)	6.282	7067298	38.288 ug/ml
4) T n-Dodecane (C12)	6.739	6199772	35.645 ug/ml
5) T A~2-methylnaphthalene...	7.380	6448144	36.384 ug/ml
6) T n-Tetradecane (C14)	8.573	6539074	37.462 ug/ml
7) T n-Hexadecane (C16)	10.183	6772548	37.017 ug/ml
8) T n-Octadecane (C18)	11.630	6798665	35.920 ug/ml
10) T n-Eicosane (C20)	12.944	6751304	36.227 ug/ml
11) T n-Heneicosane (C21)	13.557	6589075	35.833 ug/ml
13) T n-Docosane (C22)	14.145	6488644	34.661 ug/ml
14) T n-Tetracosane (C24)	15.250	13801980	70.467 ug/ml
15) T n-Hexacosane (C26)	16.276	6177452	31.787 ug/ml
16) T n-Octacosane (C28)	17.225	6375987	32.923 ug/ml
17) T n-Tricontane (C30)	18.116	5961087	29.732 ug/ml
18) T n-Dotriacontane (C32)	18.949	5884419	29.923 ug/ml
19) T n-Tetratriacontane (C34)	19.734	5068272	29.363 ug/ml
20) T n-Hexatriacontane (C36)	20.474	3949009	27.299 ug/ml
21) T n-Octatriacontane (C38)	21.223	3075118	24.433 ug/ml
22) T n-Tetracontane (C40)	22.158f	2604018	22.523 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056812.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 11:29
Operator : YP\AJ
Sample : PB170504BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

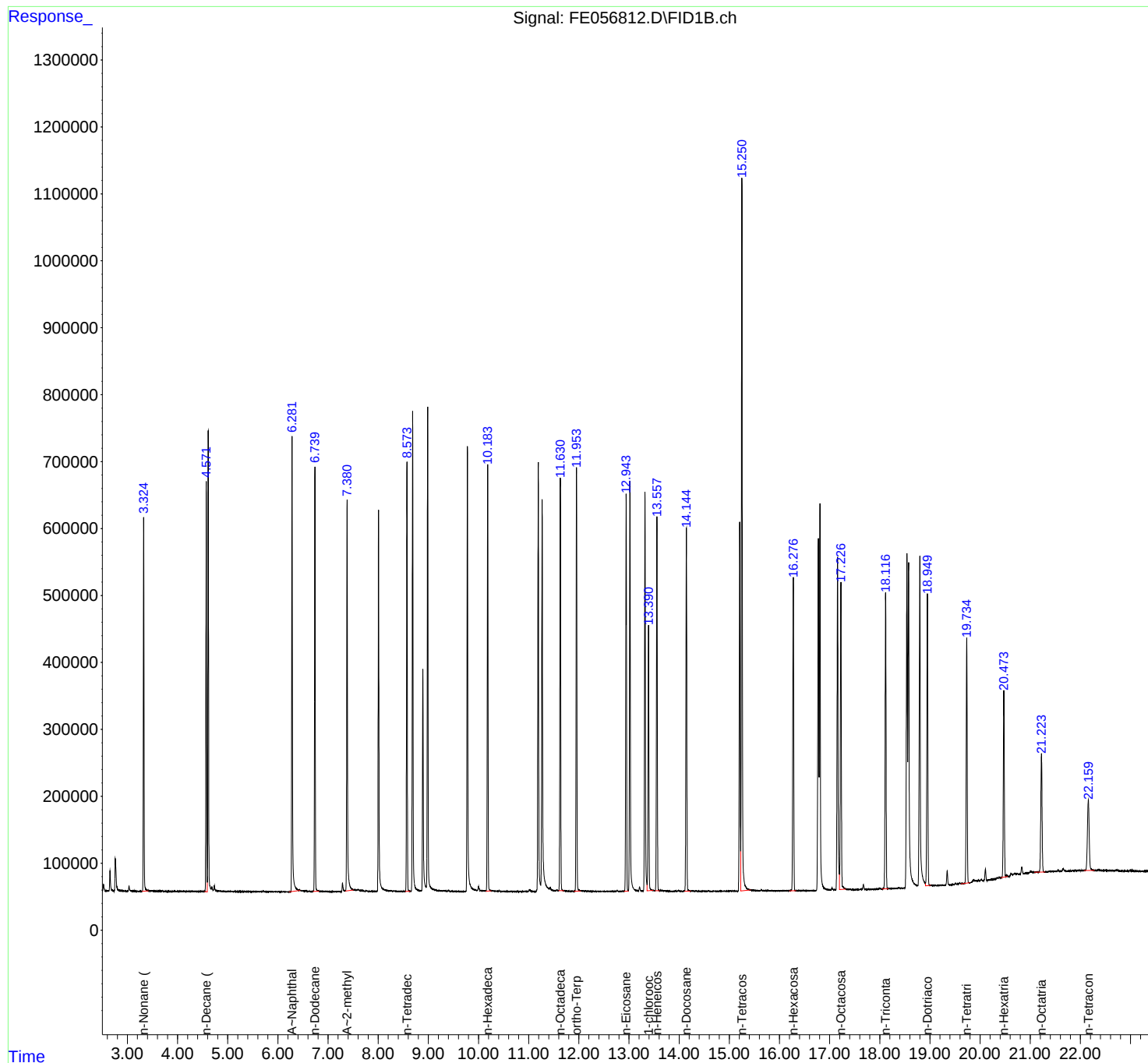
Instrument :
FID_E
ClientSampleId :
PB170504BSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
Quant Time: Nov 14 00:17:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



riteres

Instrument :

FID_E

ClientSampleId :

PB170504BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11132
Data File : FE056812.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 11:29
Sample : PB170504BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.324	3.292	3.420	BB	558165	5429780	39.34%	2.226%
2	4.571	4.541	4.590	M	612771	5759890	41.73%	2.361%
3	4.610	4.591	4.641	M	688253	6782768	49.14%	2.781%
4	6.282	6.227	6.445	BB	680100	7067298	51.20%	2.897%
5	6.739	6.697	6.820	BB	633371	6199772	44.92%	2.542%
6	7.380	7.344	7.510	BV	584731	6448144	46.72%	2.643%
7	8.573	8.535	8.639	BB	641028	6539074	47.38%	2.681%
8	8.686	8.654	8.819	BB	719920	7534894	54.59%	3.089%
9	8.986	8.956	9.139	VB	720588	7711111	55.87%	3.161%
10	9.779	9.739	9.950	BB	665480	7612598	55.16%	3.121%
11	10.183	10.145	10.257	BB	636908	6772548	49.07%	2.776%
12	11.191	11.124	11.240	BV	636866	7226228	52.36%	2.962%
13	11.268	11.240	11.412	VV	581859	7433157	53.86%	3.047%
14	11.630	11.595	11.705	BB	616702	6798665	49.26%	2.787%
15	11.953	11.900	12.040	BB	634760	7104401	51.47%	2.912%
16	12.944	12.900	12.987	BV	594147	6751304	48.92%	2.768%
17	13.019	12.987	13.150	VB	613647	7193224	52.12%	2.949%
18	13.319	13.280	13.360	BV	595306	7098669	51.43%	2.910%
19	13.390	13.360	13.482	VB	397728	4792946	34.73%	1.965%
20	13.557	13.519	13.607	BB	559440	6589075	47.74%	2.701%
21	14.145	14.105	14.229	BB	535655	6488644	47.01%	2.660%
22	15.207	15.162	15.226	BV	551156	6575327	47.64%	2.696%
23	15.250	15.226	15.420	VB	1064307	13801980	100.00%	5.658%
24	16.276	16.194	16.329	BB	468279	6177452	44.76%	2.532%
25	16.775	16.722	16.790	BV	524838	6719656	48.69%	2.755%
26	16.808	16.790	16.937	VB	580352	7381230	53.48%	3.026%
27	17.159	17.120	17.195	BV	496975	6636031	48.08%	2.720%
28	17.225	17.195	17.320	VB	459241	6375987	46.20%	2.614%
29	18.116	18.042	18.177	BB	438709	5961087	43.19%	2.444%
30	18.541	18.477	18.556	BV	497808	6896047	49.96%	2.827%
31	18.574	18.556	18.757	VV	481455	8001218	57.97%	3.280%
32	18.798	18.757	18.912	VV	494382	7491111	54.28%	3.071%
33	18.949	18.912	19.014	VB	432907	5884419	42.63%	2.412%
34	19.734	19.622	19.790	BB	364792	5068272	36.72%	2.078%
35	20.474	20.409	20.549	BBA	278265	3949009	28.61%	1.619%
36	21.223	21.079	21.294	BB	176918	3075118	22.28%	1.261%

37 22.158 22.075 22.284 BB 105317 2604018 18.87% 1.068%
rteres
Sum of corrected areas: 2439

Aliphatic EPH 103025.M Fri Nov 14 04:27:05 2025

Instrument :

FID_E

ClientSampleId :

PB170504BSD

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	S-1MS	SDG No.:	Q3604
Lab Sample ID:	Q3604-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.03 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	30.6		1	1.42	2.41	mg/kg	FE056816.D	11/13/25 13:29	PB170504
Aliphatic C9-C28	Aliphatic C9-C28	66.8		1	1.10	4.83	mg/kg	FE056816.D	11/13/25 13:29	PB170504
Total AliphaticEPH	Total AliphaticEPH	97.4			2.52	7.24	mg/kg			
Total EPH	Total EPH	97.4			2.52	7.24	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	S-1MS	SDG No.:	Q3604
Lab Sample ID:	Q3604-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.03 g	Final Vol:	2000 uL
Prep Method :		Prep Date	11/12/25
		Test:	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	66.8	1		1.10	4.83	mg/kg	11/13/25	PB170504
Aliphatic C28-C40	Aliphatic C28-C40	30.6	1		1.42	2.41	mg/kg	11/13/25	PB170504
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	22.7			40 - 140	45%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	25.9			40 - 140	52%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3604-01MS	Acq On:	13 Nov 2025 13:29
Client Sample ID:	S-1MS	Operator:	YP\AJ
Data file:	FE056816.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.836	24201911	141.397	300	ug/ml
Aliphatic C12-C16	6.837	10.282	34861959	195.027	200	ug/ml
Aliphatic C16-C21	10.283	13.654	42087622	225.664	300	ug/ml
Aliphatic C21-C28	13.655	17.323	51472565	267.021	400	ug/ml
Aliphatic C28-C40	17.324	22.256	60555237	380.098	600	ug/ml
Aliphatic EPH	3.214	22.256	213179294	1210		ug/ml
ortho-Terphenyl (SURR)	11.951	11.951	5421688	25.95		ug/ml
1-chlorooctadecane (SURR)	13.388	13.388	3651461	22.66		ug/ml
Aliphatic C9-C28	3.214	17.323	152624057	829.109	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056816.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 13:29
 Operator : YP\AJ
 Sample : Q3604-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 S-1MS

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/14/2025
 Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
 Quant Time: Nov 14 00:18:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.951	5421688	25.952 ug/ml
Spiked Amount 50.000		Recovery =	51.90%
12) S 1-chlorooctadecane (S...	13.388	3651461	22.663 ug/ml
Spiked Amount 50.000		Recovery =	45.33%
Target Compounds			
1) T n-Nonane (C9)	3.315	3834918	22.832 ug/ml
2) T n-Decane (C10)	4.566	4298822	25.052 ug/mlm
3) T A~Naphthalene (C11.7)	6.280	5257392	28.482 ug/ml
4) T n-Dodecane (C12)	6.737	4661259	26.800 ug/ml
5) T A~2-methylnaphthalene...	7.379	4857067	27.407 ug/ml
6) T n-Tetradecane (C14)	8.571	4935118	28.273 ug/ml
7) T n-Hexadecane (C16)	10.182	5313585	29.043 ug/ml
8) T n-Octadecane (C18)	11.629	5584317	29.504 ug/ml
10) T n-Eicosane (C20)	12.942	5621191	30.163 ug/ml
11) T n-Heneicosane (C21)	13.555	5507514	29.951 ug/ml
13) T n-Docosane (C22)	14.143	5459748	29.165 ug/ml
14) T n-Tetracosane (C24)	15.249	11539436	58.916 ug/ml
15) T n-Hexacosane (C26)	16.273	5179216	26.651 ug/ml
16) T n-Octacosane (C28)	17.224	5350481	27.628 ug/ml
17) T n-Tricontane (C30)	18.116	4954245	24.710 ug/ml
18) T n-Dotriacontane (C32)	18.948	4890476	24.869 ug/ml
19) T n-Tetratriacontane (C34)	19.733	4713174	27.305 ug/ml
20) T n-Hexatriacontane (C36)	20.475	4663756	32.240 ug/ml
21) T n-Octatriacontane (C38)	21.224	4722012	37.518 ug/ml
22) T n-Tetracontane (C40)	22.161	4896225	42.350 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056816.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 13:29
Operator : YP\AJ
Sample : Q3604-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

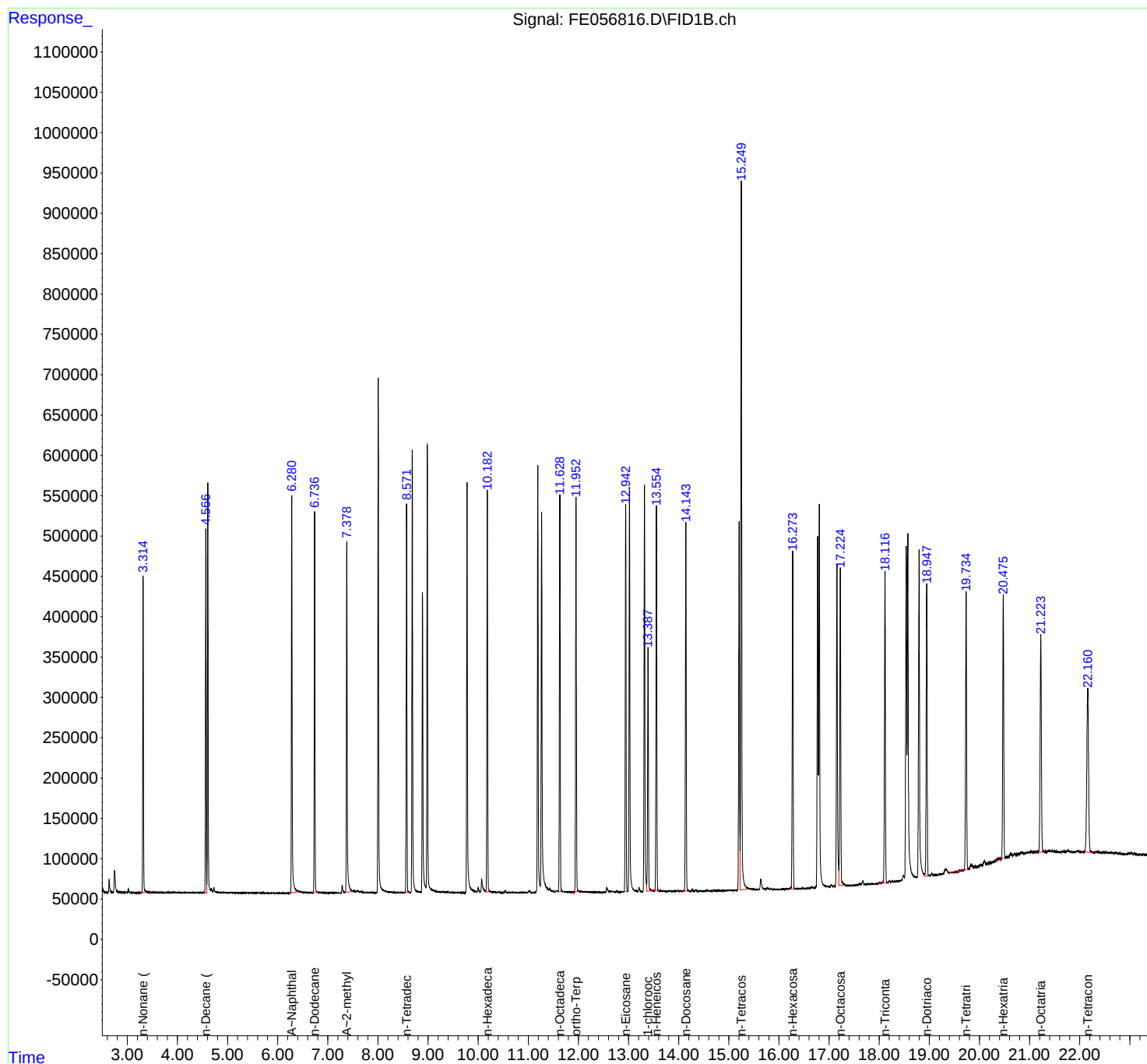
Instrument :
FID_E
ClientSampleId :
S-1MS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
Quant Time: Nov 14 00:18:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Instrument :

FID_E

ClientSampleId :

S-1MS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11132
Data File : FE056816.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 13:29
Sample : Q3604-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.638	2.574	2.719	BV	16130	203881	1.73%	0.091%
2	2.745	2.719	2.941	VV	27234	499809	4.25%	0.224%
3	2.956	2.941	2.997	VV	289	5304	0.05%	0.002%
4	3.020	2.997	3.071	VV	4879	63420	0.54%	0.028%
5	3.085	3.071	3.166	VV	313	8231	0.07%	0.004%
6	3.185	3.166	3.214	VV	200	2598	0.02%	0.001%
7	3.315	3.214	3.448	PV	392230	3901929	33.18%	1.748%
8	3.460	3.448	3.508	VV	694	19581	0.17%	0.009%
9	3.528	3.508	3.544	VV	523	9590	0.08%	0.004%
10	3.559	3.544	3.590	VV	563	11081	0.09%	0.005%
11	3.629	3.590	3.641	VV	483	12464	0.11%	0.006%
12	3.647	3.641	3.671	VV	473	7346	0.06%	0.003%
13	3.686	3.671	3.729	VV	599	12800	0.11%	0.006%
14	3.767	3.729	3.781	VV	406	9609	0.08%	0.004%
15	3.808	3.781	3.856	VV	934	25580	0.22%	0.011%
16	3.863	3.856	3.881	VV	447	5591	0.05%	0.003%
17	3.944	3.881	3.985	VV	536	27254	0.23%	0.012%
18	4.003	3.985	4.091	VV	482	22610	0.19%	0.010%
19	4.111	4.091	4.126	VV	328	5999	0.05%	0.003%
20	4.139	4.126	4.188	VV	457	12354	0.11%	0.006%
21	4.217	4.188	4.265	VV	460	14615	0.12%	0.007%
22	4.307	4.265	4.325	VV	545	12928	0.11%	0.006%
23	4.335	4.325	4.348	VV	475	5469	0.05%	0.002%
24	4.360	4.348	4.371	VV	375	5165	0.04%	0.002%
25	4.404	4.371	4.416	VV	508	10476	0.09%	0.005%
26	4.421	4.416	4.431	VV	349	3008	0.03%	0.001%
27	4.458	4.431	4.492	VV	416	12628	0.11%	0.006%
28	4.510	4.492	4.529	VV	380	6898	0.06%	0.003%
29	4.567	4.529	4.586	VV	452601	4307112	36.63%	1.929%
30	4.606	4.586	4.665	VV	506784	5062238	43.05%	2.268%
31	4.681	4.665	4.708	VV	5683	87653	0.75%	0.039%
32	4.729	4.708	4.865	VV	6669	156335	1.33%	0.070%
33	4.875	4.865	4.901	VV	651	12403	0.11%	0.006%
34	4.908	4.901	4.954	VV	596	15866	0.13%	0.007%
35	4.967	4.954	5.124	VV	472	37704	0.32%	0.017%
36	5.130	5.124	5.151	VV	311	4606	0.04%	0.002%

					retention				
37	5.154	5.151	5.221	VV	306	9925	0.08%	0.004%	
38	5.240	5.221	5.304	VV	345	11635			
39	5.335	5.304	5.352	VV	257	5294			
40	5.362	5.352	5.477	VV	223	10435			
41	5.496	5.477	5.511	VV	237	2770			
42	5.550	5.511	5.581	VV	286	7731			
43	5.598	5.581	5.613	VV	217	3337	0.03%	0.001%	
44	5.625	5.613	5.644	VV	156	2344	0.02%	0.001%	
45	5.666	5.644	5.684	VV	197	3145	0.03%	0.001%	
46	5.705	5.684	5.758	VV	1359	18879	0.16%	0.008%	
47	5.767	5.758	5.820	VV	133	3688	0.03%	0.002%	
48	5.848	5.820	5.881	VV	131	3883	0.03%	0.002%	
49	5.895	5.881	5.908	VV	186	1819	0.02%	0.001%	
50	5.911	5.908	5.919	VV	147	713	0.01%	0.000%	
51	5.928	5.919	5.959	VV	141	2187	0.02%	0.001%	
52	5.981	5.959	6.051	VV	110	4873	0.04%	0.002%	
53	6.059	6.051	6.146	VV	117	4556	0.04%	0.002%	
54	6.156	6.146	6.235	PV	90	1623	0.01%	0.001%	
55	6.280	6.235	6.431	VV	486916	5372284	45.69%	2.406%	
56	6.445	6.431	6.551	VV	2061	91974	0.78%	0.041%	
57	6.558	6.551	6.593	VV	878	20029	0.17%	0.009%	
58	6.610	6.593	6.698	VV	825	40972	0.35%	0.018%	
59	6.737	6.698	6.878	VV	470834	4738923	40.30%	2.123%	
60	6.888	6.878	7.022	VV	653	32402	0.28%	0.015%	
61	7.035	7.022	7.051	VV	359	4385	0.04%	0.002%	
62	7.067	7.051	7.087	VV	313	5296	0.05%	0.002%	
63	7.100	7.087	7.119	VV	236	3663	0.03%	0.002%	
64	7.127	7.119	7.135	VV	147	1332	0.01%	0.001%	
65	7.157	7.135	7.174	VV	251	3453	0.03%	0.002%	
66	7.177	7.174	7.185	VV	174	797	0.01%	0.000%	
67	7.194	7.185	7.242	VV	204	3613	0.03%	0.002%	
68	7.288	7.242	7.343	VV	9798	141125	1.20%	0.063%	
69	7.379	7.343	7.509	VV	435385	5000554	42.53%	2.240%	
70	7.525	7.509	7.564	VV	2745	71333	0.61%	0.032%	
71	7.587	7.564	7.643	VV	2773	96950	0.82%	0.043%	
72	7.660	7.643	7.671	VV	1704	25086	0.21%	0.011%	
73	7.685	7.671	7.730	VV	1900	39615	0.34%	0.018%	
74	7.749	7.730	7.761	VV	875	14437	0.12%	0.006%	
75	7.770	7.761	7.840	VV	803	25179	0.21%	0.011%	
76	7.865	7.840	7.894	VV	897	16528	0.14%	0.007%	
77	7.901	7.894	7.957	VV	406	10634	0.09%	0.005%	
78	8.259	8.243	8.294	VV	1337	30588	0.26%	0.014%	
79	8.314	8.294	8.351	VV	977	25099	0.21%	0.011%	
80	8.366	8.351	8.384	VV	530	10643	0.09%	0.005%	
81	8.391	8.384	8.427	VV	603	12627	0.11%	0.006%	
82	8.448	8.427	8.454	VV	501	7367	0.06%	0.003%	
83	8.479	8.454	8.525	VV	679	21626	0.18%	0.010%	
84	8.571	8.525	8.650	VV	482510	4975221	42.31%	2.229%	
85	8.684	8.650	8.859	VV	547502	5849831	49.75%	2.620%	
86	8.984	8.958	9.278	VV	556656	6268261	53.31%	2.808%	
87	9.310	9.278	9.377	VV	1306	58724	0.50%	0.026%	
88	9.398	9.377	9.461	VV	1907	43410	0.37%	0.019%	
89	9.469	9.461	9.512	VV	496	13980	0.12%	0.006%	

Instrument :

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S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

90	9.520	9.512	9.537	VV	466	6236	0.05%	0.003%
91	9.551	9.537	9.568	VV	386	6541		
92	9.581	9.568	9.596	VV	401	5773		
93	9.600	9.596	9.686	VV	307	10219		
94	9.703	9.686	9.717	VV	164	2227		
95	9.777	9.717	9.974	PV	509569	6048243	51.05%	2.736%
96	9.999	9.974	10.043	VV	6253	122741	1.04%	0.055%
97	10.070	10.043	10.148	VV	16712	386183	3.28%	0.173%
98	10.182	10.148	10.382	VV	495347	5460037	46.44%	2.446%
99	10.407	10.382	10.465	VV	1454	29598	0.25%	0.013%
100	10.482	10.465	10.504	VV	427	7444	0.06%	0.003%
101	10.538	10.504	10.620	VV	3069	61202	0.52%	0.027%
102	10.656	10.620	10.771	VV	559	24450	0.21%	0.011%
103	10.781	10.771	10.794	VV	138	1332	0.01%	0.001%
104	10.811	10.794	10.817	VV	133	1310	0.01%	0.001%
105	10.846	10.817	10.869	VV	329	5922	0.05%	0.003%
106	10.889	10.869	10.903	VV	304	4226	0.04%	0.002%
107	10.922	10.903	10.971	VV	707	11111	0.09%	0.005%
108	11.014	10.971	11.113	VV	2311	57052	0.49%	0.026%
109	11.189	11.113	11.237	PV	527827	5874113	49.96%	2.631%
110	11.266	11.237	11.414	VV	467483	6297836	53.56%	2.821%
111	11.430	11.414	11.536	VV	5693	171580	1.46%	0.077%
112	11.560	11.536	11.591	VV	2070	53796	0.46%	0.024%
113	11.629	11.591	11.776	VV	492583	5698138	48.46%	2.552%
114	11.790	11.776	11.814	VV	686	13591	0.12%	0.006%
115	11.823	11.814	11.858	VV	592	11885	0.10%	0.005%
116	11.871	11.858	11.910	VV	369	9979	0.08%	0.004%
117	11.951	11.910	12.037	VV	491320	5502026	46.79%	2.465%
118	12.058	12.037	12.102	VV	1488	41748	0.36%	0.019%
119	12.120	12.102	12.171	VV	1061	29430	0.25%	0.013%
120	12.192	12.171	12.214	VV	532	10601	0.09%	0.005%
121	12.235	12.214	12.265	VV	387	8404	0.07%	0.004%
122	12.296	12.265	12.336	VV	650	13909	0.12%	0.006%
123	12.363	12.336	12.382	VV	434	7462	0.06%	0.003%
124	12.399	12.382	12.441	VV	440	8651	0.07%	0.004%
125	12.454	12.441	12.478	VV	164	2365	0.02%	0.001%
126	12.509	12.478	12.540	PV	308	5666	0.05%	0.003%
127	12.563	12.540	12.614	VV	6213	115313	0.98%	0.052%
128	12.625	12.614	12.643	VV	1347	20329	0.17%	0.009%
129	12.666	12.643	12.714	VV	1401	35964	0.31%	0.016%
130	12.724	12.714	12.741	VV	402	5980	0.05%	0.003%
131	12.764	12.741	12.806	VV	1422	23900	0.20%	0.011%
132	12.824	12.806	12.844	VV	320	4603	0.04%	0.002%
133	12.873	12.844	12.893	VV	649	12120	0.10%	0.005%
134	12.942	12.893	12.983	VV	475147	5656553	48.11%	2.534%
135	13.018	12.983	13.181	VV	502181	6108023	51.95%	2.736%
136	13.210	13.181	13.280	VV	5517	96924	0.82%	0.043%
137	13.317	13.280	13.359	VV	504964	5933477	50.46%	2.658%
138	13.388	13.359	13.521	VV	303748	3762706	32.00%	1.685%
139	13.555	13.521	13.611	VV	479034	5564324	47.32%	2.492%
140	13.632	13.611	13.704	VV	1261	47311	0.40%	0.021%
141	13.715	13.704	13.771	VV	494	16664	0.14%	0.007%

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S-1MS

Manual IntegrationsAPPROVED

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Supervised By :Sohil Jodhani 11/14/2025

rteres						Instrument :	
						FID_E	
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						S-1MS	
142	13.785	13.771	13.798	VV	591	7569	0.06% 0.003%
143	13.819	13.798	13.876	VV	652	22803	
144	13.899	13.876	13.913	VV	548	8903	
145	13.932	13.913	13.954	VV	660	12256	
146	13.983	13.954	14.030	VV	1290	26820	
147	14.042	14.030	14.054	VV	273	3238	
148	14.094	14.054	14.106	VV	921	14290	0.12% 0.006%
149	14.143	14.106	14.237	VV	458491	5472258	46.54% 2.451%
150	14.267	14.237	14.314	VV	2096	31672	0.27% 0.014%
151	14.339	14.314	14.404	VV	1407	25915	0.22% 0.012%
152	14.414	14.404	14.448	PV	112	1278	0.01% 0.001%
153	14.579	14.448	14.611	PV	786	23659	0.20% 0.011%
154	14.658	14.611	14.681	VV	369	7755	0.07% 0.003%
155	14.705	14.681	14.724	PV	859	10098	0.09% 0.005%
156	14.771	14.724	14.788	VV	349	6252	0.05% 0.003%
157	14.825	14.788	14.857	PV	361	9309	0.08% 0.004%
158	14.865	14.857	14.887	VV	236	2135	0.02% 0.001%
159	14.908	14.887	14.944	PV	289	5923	0.05% 0.003%
160	14.990	14.944	15.012	VV	507	10914	0.09% 0.005%
161	15.030	15.012	15.051	VV	506	7341	0.06% 0.003%
162	15.061	15.051	15.071	VV	177	1700	0.01% 0.001%
163	15.104	15.071	15.146	VV	570	13623	0.12% 0.006%
164	15.205	15.146	15.224	VV	450403	5445254	46.31% 2.439%
165	15.249	15.224	15.534	VV	876474	11758367	100.00% 5.267%
166	15.544	15.534	15.599	VV	745	23939	0.20% 0.011%
167	15.637	15.599	15.742	VV	12557	308244	2.62% 0.138%
168	15.768	15.742	15.811	VV	2381	57004	0.48% 0.026%
169	15.841	15.811	15.875	VV	1589	26798	0.23% 0.012%
170	15.907	15.875	15.941	VV	493	10731	0.09% 0.005%
171	15.964	15.941	15.988	VV	250	5087	0.04% 0.002%
172	15.993	15.988	16.007	VV	111	868	0.01% 0.000%
173	16.092	16.007	16.112	PV	323	10775	0.09% 0.005%
174	16.158	16.112	16.178	VV	539	12325	0.10% 0.006%
175	16.273	16.178	16.321	VV	418101	5199990	44.22% 2.329%
176	16.338	16.321	16.375	VV	445	10660	0.09% 0.005%
177	16.395	16.375	16.438	VV	251	5067	0.04% 0.002%
178	16.470	16.438	16.527	PV	1286	22060	0.19% 0.010%
179	16.576	16.527	16.602	PV	405	8866	0.08% 0.004%
180	16.657	16.602	16.701	VV	1515	34979	0.30% 0.016%
181	16.716	16.701	16.727	VV	362	3776	0.03% 0.002%
182	16.772	16.727	16.788	VV	429745	5545462	47.16% 2.484%
183	16.805	16.788	17.009	VV	473322	6257913	53.22% 2.803%
184	17.044	17.009	17.087	VV	2536	53093	0.45% 0.024%
185	17.104	17.087	17.119	VV	1217	14178	0.12% 0.006%
186	17.156	17.119	17.194	VV	401871	5466527	46.49% 2.449%
187	17.224	17.194	17.346	VV	394780	5448227	46.33% 2.440%
188	17.354	17.346	17.378	VV	629	8263	0.07% 0.004%
189	17.423	17.378	17.439	VV	368	11325	0.10% 0.005%
190	17.470	17.439	17.487	VV	335	7079	0.06% 0.003%
191	17.499	17.487	17.506	VV	196	1425	0.01% 0.001%
192	17.559	17.506	17.573	VV	407	10674	0.09% 0.005%
193	17.608	17.573	17.626	VV	1325	29554	0.25% 0.013%
194	17.672	17.626	17.699	VV	5070	90567	0.77% 0.041%

Instrument :

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S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

							Instrument : FID_E	
							ClientSampleId : S-1MS	
rteres								
195	17.711	17.699	17.731	VV	611	9100	0.08%	0.004%
							Manual IntegrationsAPPROVED	
196	17.756	17.731	17.774	VV	706	13316	0.08%	0.004%
197	17.788	17.774	17.827	VV	835	13779	0.08%	0.004%
198	17.849	17.827	17.925	VV	657	17247	0.08%	0.004%
199	18.005	17.925	18.035	PV	1259	27096	0.08%	0.004%
200	18.116	18.035	18.173	VV	376899	4951394	42.40%	2.233%
201	18.204	18.173	18.234	PV	2073	32535	0.28%	0.015%
202	18.259	18.234	18.282	VV	1463	24921	0.21%	0.011%
203	18.304	18.282	18.321	VV	636	11642	0.10%	0.005%
204	18.358	18.321	18.378	VV	700	13168	0.11%	0.006%
205	18.401	18.378	18.414	VV	325	4912	0.04%	0.002%
206	18.439	18.414	18.451	PV	1138	14221	0.12%	0.006%
207	18.482	18.451	18.503	VV	6813	132673	1.13%	0.059%
208	18.539	18.503	18.554	VV	409463	5580432	47.46%	2.500%
209	18.571	18.554	18.729	VV	428010	6596154	56.10%	2.955%
210	18.736	18.729	18.754	VV	2100	29018	0.25%	0.013%
211	18.795	18.754	18.906	VV	403726	6173248	52.50%	2.765%
212	18.948	18.906	19.018	VV	363061	4985438	42.40%	2.233%
213	19.049	19.018	19.083	VV	4140	90092	0.77%	0.040%
214	19.101	19.083	19.131	VV	2202	44656	0.38%	0.020%
215	19.145	19.131	19.158	VV	1085	14776	0.13%	0.007%
216	19.314	19.158	19.328	VV	6187	206234	1.75%	0.092%
217	19.340	19.328	19.408	VV	6481	165232	1.41%	0.074%
218	19.447	19.408	19.461	VV	1702	44755	0.38%	0.020%
219	19.482	19.461	19.494	VV	1423	24913	0.21%	0.011%
220	19.546	19.494	19.561	VV	1587	54883	0.47%	0.025%
221	19.602	19.561	19.619	VV	2218	62908	0.54%	0.028%
222	19.638	19.619	19.656	VV	2206	43807	0.37%	0.020%
223	19.669	19.656	19.680	VV	2019	26755	0.23%	0.012%
224	19.733	19.680	19.784	VV	348881	4904074	41.71%	2.197%
225	19.831	19.784	19.879	VV	7643	301875	2.57%	0.135%
226	19.894	19.879	19.903	VV	4367	60126	0.51%	0.027%
227	19.916	19.903	19.933	VV	4769	76656	0.65%	0.034%
228	20.017	19.933	20.043	VV	5321	305845	2.60%	0.137%
229	20.101	20.043	20.128	VV	9433	347447	2.95%	0.156%
230	20.171	20.128	20.180	VV	6188	187037	1.59%	0.084%
231	20.219	20.180	20.231	VV	6400	186741	1.59%	0.084%
232	20.337	20.231	20.347	VV	8683	508347	4.32%	0.228%
233	20.378	20.347	20.408	VV	10413	346793	2.95%	0.155%
234	20.475	20.408	20.514	VV	334820	5231312	44.49%	2.343%
235	20.546	20.514	20.577	VV	11120	389914	3.32%	0.175%
236	20.616	20.577	20.664	VV	14133	646916	5.50%	0.290%
237	20.691	20.664	20.718	VV	12955	390953	3.32%	0.175%
238	20.730	20.718	20.756	VV	12509	280693	2.39%	0.126%
239	20.830	20.756	20.858	VV	14214	771555	6.56%	0.346%
240	20.867	20.858	20.902	VV	12601	322075	2.74%	0.144%
241	20.950	20.902	20.968	VV	12946	483687	4.11%	0.217%
242	21.029	20.968	21.061	VV	12854	691873	5.88%	0.310%
243	21.093	21.061	21.104	VV	12184	314442	2.67%	0.141%
244	21.136	21.104	21.173	VV	12084	475994	4.05%	0.213%
245	21.224	21.173	21.306	VV	279673	5541828	47.13%	2.482%
246	21.325	21.306	21.334	VV	10507	172216	1.46%	0.077%

rters									
247	21.373	21.334	21.398	VV	10559	387360	3.29%	0.174%	
248	21.409	21.398	21.434	VV	10515	218229			
249	21.452	21.434	21.474	VV	10091	232046			
250	21.494	21.474	21.521	VV	9168	245366			
251	21.527	21.521	21.546	VV	8516	121486			
252	21.560	21.546	21.571	VV	7765	115085			
253	21.589	21.571	21.615	VV	7521	185843	1.58%	0.083%	
254	21.654	21.615	21.701	VV	7905	362356	3.08%	0.162%	
255	21.765	21.701	21.858	VV	7316	579986	4.93%	0.260%	
256	21.863	21.858	21.874	VV	4778	45738	0.39%	0.020%	
257	21.903	21.874	21.930	VV	4914	149808	1.27%	0.067%	
258	21.943	21.930	21.961	VV	5124	89719	0.76%	0.040%	
259	21.969	21.961	22.008	VV	4582	114745	0.98%	0.051%	
260	22.027	22.008	22.041	VV	3440	65759	0.56%	0.029%	
261	22.069	22.041	22.081	VV	3200	69341	0.59%	0.031%	
262	22.161	22.081	22.251	VV	204813	5065779	43.08%	2.269%	
263	22.267	22.251	22.303	VV	889	15163	0.13%	0.007%	
264	22.316	22.303	22.324	PV	292	1979	0.02%	0.001%	
Sum of corrected areas:					223244409				

Instrument :

FID_E

ClientSampleId :

S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

Aliphatic EPH 103025.M Fri Nov 14 04:38:37 2025

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	S-1MSD	SDG No.:	Q3604
Lab Sample ID:	Q3604-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.01 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/12/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	32.9		1	1.42	2.41	mg/kg	FE056817.D	11/13/25 13:59	PB170504
Aliphatic C9-C28	Aliphatic C9-C28	66.5		1	1.10	4.84	mg/kg	FE056817.D	11/13/25 13:59	PB170504
Total AliphaticEPH	Total AliphaticEPH	99.4			2.52	7.25	mg/kg			
Total EPH	Total EPH	99.4			2.52	7.25	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	MCUA - New Brunswick	Date Received:	
Client Sample ID:	S-1MSD	SDG No.:	Q3604
Lab Sample ID:	Q3604-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.01 g	Final Vol:	2000 uL
Prep Method :		Prep Date	11/12/25
		Test:	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	66.5	1		1.10	4.84	mg/kg	11/13/25	PB170504
Aliphatic C28-C40	Aliphatic C28-C40	32.9	1		1.42	2.41	mg/kg	11/13/25	PB170504
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	22.5			40 - 140	45%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	25.9			40 - 140	52%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3604-01MSD	Acq On:	13 Nov 2025 13:59
Client Sample ID:	S-1MSD	Operator:	YP\AJ
Data file:	FE056817.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.836	24055290	140.541	300	ug/ml
Aliphatic C12-C16	6.837	10.282	34541703	193.236	200	ug/ml
Aliphatic C16-C21	10.283	13.654	41829678	224.281	300	ug/ml
Aliphatic C21-C28	13.655	17.323	51381133	266.546	400	ug/ml
Aliphatic C28-C40	17.324	22.256	65042162	408.262	600	ug/ml
Aliphatic EPH	3.214	22.256	216849966	1230		ug/ml
ortho-Terphenyl (SURR)	11.952	11.952	5414422	25.92		ug/ml
1-chlorooctadecane (SURR)	13.389	13.389	3630982	22.54		ug/ml
Aliphatic C9-C28	3.214	17.323	151807804	824.604	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
 Data File : FE056817.D
 Signal(s) : FID1B.ch
 Acq On : 13 Nov 2025 13:59
 Operator : YP\AJ
 Sample : Q3604-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 S-1MSD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/14/2025
 Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
 Quant Time: Nov 14 00:19:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.952	5414422	25.917 ug/ml
Spiked Amount 50.000		Recovery =	51.83%
12) S 1-chlorooctadecane (S...	13.389	3630982	22.536 ug/ml
Spiked Amount 50.000		Recovery =	45.07%
Target Compounds			
1) T n-Nonane (C9)	3.315	3794211	22.589 ug/ml
2) T n-Decane (C10)	4.567	4261349	24.834 ug/mlm
3) T A~Naphthalene (C11.7)	6.280	5198285	28.162 ug/ml
4) T n-Dodecane (C12)	6.737	4617973	26.551 ug/ml
5) T A~2-methylnaphthalene...	7.379	4812361	27.154 ug/ml
6) T n-Tetradecane (C14)	8.571	4895636	28.047 ug/ml
7) T n-Hexadecane (C16)	10.182	5254867	28.722 ug/ml
8) T n-Octadecane (C18)	11.629	5539187	29.266 ug/ml
10) T n-Eicosane (C20)	12.943	5580007	29.942 ug/ml
11) T n-Heneicosane (C21)	13.556	5467226	29.732 ug/ml
13) T n-Docosane (C22)	14.143	5412608	28.913 ug/ml
14) T n-Tetracosane (C24)	15.248	11510160	58.766 ug/ml
15) T n-Hexacosane (C26)	16.274	5166640	26.586 ug/ml
16) T n-Octacosane (C28)	17.225	5294927	27.341 ug/ml
17) T n-Tricontane (C30)	18.115	5107179	25.473 ug/ml
18) T n-Dotriacontane (C32)	18.949	5270301	26.800 ug/ml
19) T n-Tetratriacontane (C34)	19.734	5136600	29.758 ug/ml
20) T n-Hexatriacontane (C36)	20.475	4962383	34.305 ug/ml
21) T n-Octatriacontane (C38)	21.223	4962518	39.428 ug/ml
22) T n-Tetracontane (C40)	22.161	5019999	43.420 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111325AL\
Data File : FE056817.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 13:59
Operator : YP\AJ
Sample : Q3604-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

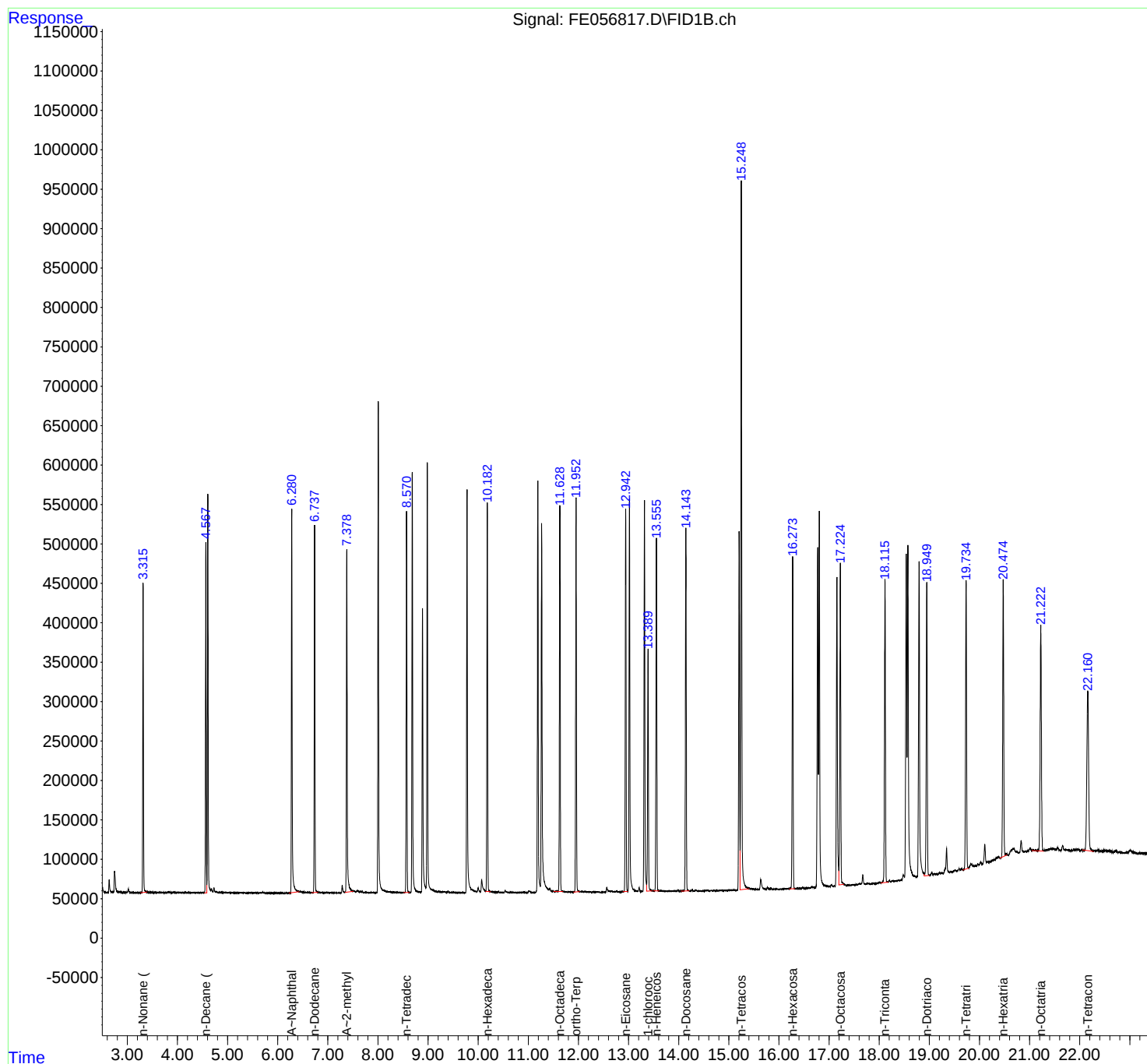
Instrument :
FID_E
ClientSampleId :
S-1MSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

Integration File: sample.E
Quant Time: Nov 14 00:19:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Instrument :

FID_E

ClientSampleId :

S-1MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11132
Data File : FE056817.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2025 13:59
Sample : Q3604-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.638	2.574	2.720	BV	16072	201819	1.73%	0.089%
2	2.746	2.720	2.914	VV	27057	488390	4.19%	0.215%
3	2.921	2.914	2.948	VV	162	2830	0.02%	0.001%
4	2.955	2.948	2.994	VV	266	3023	0.03%	0.001%
5	3.020	2.994	3.070	VV	4884	62150	0.53%	0.027%
6	3.085	3.070	3.162	VV	262	7732	0.07%	0.003%
7	3.188	3.162	3.224	VV	187	3231	0.03%	0.001%
8	3.231	3.224	3.240	PV	97	450	0.00%	0.000%
9	3.254	3.240	3.271	PV	108	1182	0.01%	0.001%
10	3.315	3.271	3.441	VV	391898	3853750	33.06%	1.699%
11	3.462	3.441	3.506	VV	760	22470	0.19%	0.010%
12	3.527	3.506	3.552	VV	523	12968	0.11%	0.006%
13	3.560	3.552	3.587	VV	550	8088	0.07%	0.004%
14	3.597	3.587	3.610	VV	402	4485	0.04%	0.002%
15	3.629	3.610	3.668	VV	575	14342	0.12%	0.006%
16	3.685	3.668	3.744	VV	457	14233	0.12%	0.006%
17	3.768	3.744	3.782	VV	427	7032	0.06%	0.003%
18	3.808	3.782	3.888	VV	985	33318	0.29%	0.015%
19	3.929	3.888	3.982	VV	562	25396	0.22%	0.011%
20	4.006	3.982	4.071	VV	468	20395	0.17%	0.009%
21	4.075	4.071	4.082	VV	364	2145	0.02%	0.001%
22	4.104	4.082	4.131	VV	449	10439	0.09%	0.005%
23	4.139	4.131	4.196	VV	520	14063	0.12%	0.006%
24	4.217	4.196	4.250	VV	553	11725	0.10%	0.005%
25	4.273	4.250	4.282	VV	314	5673	0.05%	0.003%
26	4.307	4.282	4.321	VV	514	9547	0.08%	0.004%
27	4.338	4.321	4.366	VV	434	10143	0.09%	0.004%
28	4.399	4.366	4.430	VV	480	15054	0.13%	0.007%
29	4.475	4.430	4.490	VV	448	13625	0.12%	0.006%
30	4.504	4.490	4.527	VV	404	8284	0.07%	0.004%
31	4.567	4.527	4.587	VV	444273	4268823	36.62%	1.882%
32	4.606	4.587	4.665	VV	498628	5010268	42.99%	2.209%
33	4.681	4.665	4.708	VV	5584	87834	0.75%	0.039%
34	4.729	4.708	4.862	VV	6631	163462	1.40%	0.072%
35	4.872	4.862	4.992	VV	742	46943	0.40%	0.021%
36	5.016	4.992	5.055	VV	588	18117	0.16%	0.008%

					retention				
37	5.080	5.055	5.141	VV	536	23441	0.20%	0.010%	
38	5.147	5.141	5.186	VV	454	11385			
39	5.196	5.186	5.207	VV	414	4638			
40	5.222	5.207	5.278	VV	441	15469			
41	5.289	5.278	5.324	VV	358	9064			
42	5.339	5.324	5.377	VV	329	6687			
43	5.418	5.377	5.431	PV	338	7590	0.07%	0.003%	
44	5.434	5.431	5.488	VV	341	9021	0.08%	0.004%	
45	5.494	5.488	5.523	VV	283	5007	0.04%	0.002%	
46	5.564	5.523	5.578	VV	399	10190	0.09%	0.004%	
47	5.587	5.578	5.605	VV	310	4204	0.04%	0.002%	
48	5.614	5.605	5.628	VV	306	3075	0.03%	0.001%	
49	5.634	5.628	5.668	VV	260	4814	0.04%	0.002%	
50	5.706	5.668	5.774	VV	1384	24826	0.21%	0.011%	
51	5.835	5.774	5.881	VV	203	9785	0.08%	0.004%	
52	5.898	5.881	5.927	VV	186	3989	0.03%	0.002%	
53	5.940	5.927	5.989	VV	203	4351	0.04%	0.002%	
54	6.011	5.989	6.031	VV	202	3326	0.03%	0.001%	
55	6.037	6.031	6.071	VV	194	2305	0.02%	0.001%	
56	6.080	6.071	6.135	VV	172	3546	0.03%	0.002%	
57	6.148	6.135	6.204	VV	127	2816	0.02%	0.001%	
58	6.221	6.204	6.250	VV	74	1474	0.01%	0.001%	
59	6.280	6.250	6.432	PV	483623	5315920	45.61%	2.344%	
60	6.445	6.432	6.588	VV	2066	112080	0.96%	0.049%	
61	6.611	6.588	6.699	VV	860	43565	0.37%	0.019%	
62	6.737	6.699	6.878	VV	466309	4698468	40.31%	2.071%	
63	6.888	6.878	6.915	VV	601	11032	0.09%	0.005%	
64	6.925	6.915	6.945	VV	382	5892	0.05%	0.003%	
65	6.972	6.945	6.985	VV	319	7310	0.06%	0.003%	
66	6.996	6.985	7.007	VV	332	3727	0.03%	0.002%	
67	7.021	7.007	7.048	VV	313	6375	0.05%	0.003%	
68	7.081	7.048	7.136	VV	305	11235	0.10%	0.005%	
69	7.146	7.136	7.194	VV	212	4728	0.04%	0.002%	
70	7.200	7.194	7.213	VV	114	1089	0.01%	0.000%	
71	7.230	7.213	7.261	VV	135	1499	0.01%	0.001%	
72	7.288	7.261	7.344	VV	9455	138773	1.19%	0.061%	
73	7.379	7.344	7.510	VV	434348	4954839	42.51%	2.185%	
74	7.524	7.510	7.560	VV	2708	65098	0.56%	0.029%	
75	7.587	7.560	7.648	VV	2753	103508	0.89%	0.046%	
76	7.660	7.648	7.674	VV	1640	23812	0.20%	0.010%	
77	7.685	7.674	7.718	VV	1866	30403	0.26%	0.013%	
78	7.752	7.718	7.764	VV	773	20517	0.18%	0.009%	
79	7.774	7.764	7.848	VV	806	23895	0.21%	0.011%	
80	7.865	7.848	7.892	VV	873	13697	0.12%	0.006%	
81	7.903	7.892	7.950	VV	356	9311	0.08%	0.004%	
82	8.260	8.244	8.292	VV	1248	28860	0.25%	0.013%	
83	8.316	8.292	8.444	VV	1033	53599	0.46%	0.024%	
84	8.455	8.444	8.462	VV	456	4541	0.04%	0.002%	
85	8.475	8.462	8.524	VV	636	17338	0.15%	0.008%	
86	8.571	8.524	8.652	VV	481234	4936434	42.35%	2.176%	
87	8.684	8.652	8.851	VV	534287	5792558	49.70%	2.554%	
88	8.984	8.958	9.273	VV	547406	6215250	53.32%	2.740%	
89	9.308	9.273	9.378	VV	1301	62910	0.54%	0.028%	

Instrument :

FID_E

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

					retention				
90	9.399	9.378	9.455	VV	1829	40546	0.35%	0.018%	
91	9.464	9.455	9.578	VV	523	28183			
92	9.587	9.578	9.605	VV	357	4943			
93	9.611	9.605	9.668	VV	328	6776			
94	9.677	9.668	9.725	VV	175	3295			
95	9.735	9.725	9.743	VV	29	409			
96	9.777	9.743	9.974	PV	512506	5997546	51.46%	2.644%	
97	9.999	9.974	10.045	VV	6140	122172	1.05%	0.054%	
98	10.070	10.045	10.149	VV	16161	380986	3.27%	0.168%	
99	10.182	10.149	10.382	VV	492014	5408617	46.40%	2.385%	
100	10.407	10.382	10.467	VV	1450	28254	0.24%	0.012%	
101	10.485	10.467	10.514	VV	339	7830	0.07%	0.003%	
102	10.538	10.514	10.623	VV	3085	58885	0.51%	0.026%	
103	10.650	10.623	10.694	VV	542	15546	0.13%	0.007%	
104	10.713	10.694	10.764	VV	271	6881	0.06%	0.003%	
105	10.777	10.764	10.822	VV	140	2475	0.02%	0.001%	
106	10.850	10.822	10.870	VV	309	4879	0.04%	0.002%	
107	10.922	10.870	10.970	VV	674	13186	0.11%	0.006%	
108	11.013	10.970	11.099	VV	2246	54894	0.47%	0.024%	
109	11.111	11.099	11.124	PV	81	520	0.00%	0.000%	
110	11.189	11.124	11.238	VV	517335	5841010	50.11%	2.575%	
111	11.266	11.238	11.411	VV	462006	6251785	53.64%	2.756%	
112	11.430	11.411	11.484	VV	5755	136484	1.17%	0.060%	
113	11.490	11.484	11.534	VV	1703	40825	0.35%	0.018%	
114	11.560	11.534	11.594	VV	2087	56434	0.48%	0.025%	
115	11.629	11.594	11.696	VV	493215	5604462	48.08%	2.471%	
116	11.706	11.696	11.774	VV	1258	39883	0.34%	0.018%	
117	11.791	11.774	11.811	VV	664	12431	0.11%	0.005%	
118	11.828	11.811	11.844	VV	637	10170	0.09%	0.004%	
119	11.858	11.844	11.901	VV	428	12010	0.10%	0.005%	
120	11.952	11.901	12.044	VV	496510	5476084	46.98%	2.414%	
121	12.060	12.044	12.104	VV	1367	38035	0.33%	0.017%	
122	12.121	12.104	12.173	VV	1042	27875	0.24%	0.012%	
123	12.193	12.173	12.215	VV	455	9318	0.08%	0.004%	
124	12.233	12.215	12.268	VV	350	6442	0.06%	0.003%	
125	12.296	12.268	12.331	VV	596	12346	0.11%	0.005%	
126	12.361	12.331	12.383	VV	401	7100	0.06%	0.003%	
127	12.398	12.383	12.454	VV	448	8006	0.07%	0.004%	
128	12.462	12.454	12.484	VV	129	1492	0.01%	0.001%	
129	12.508	12.484	12.531	PV	281	3936	0.03%	0.002%	
130	12.564	12.531	12.613	VV	6134	113534	0.97%	0.050%	
131	12.626	12.613	12.645	VV	1298	21774	0.19%	0.010%	
132	12.667	12.645	12.721	VV	1258	35055	0.30%	0.015%	
133	12.728	12.721	12.741	VV	396	4257	0.04%	0.002%	
134	12.764	12.741	12.802	VV	1354	21868	0.19%	0.010%	
135	12.874	12.802	12.904	VV	624	17840	0.15%	0.008%	
136	12.943	12.904	12.984	VV	481749	5610000	48.13%	2.473%	
137	13.017	12.984	13.183	VV	501433	6087936	52.23%	2.684%	
138	13.210	13.183	13.280	VV	5638	95832	0.82%	0.042%	
139	13.317	13.280	13.360	VV	495727	5916838	50.76%	2.609%	
140	13.389	13.360	13.488	VV	303419	3710846	31.84%	1.636%	
141	13.497	13.488	13.517	VV	1242	18266	0.16%	0.008%	

Instrument :

FID_E

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

					rters			
142	13.556	13.517	13.610	VV	450190	5522515	47.38%	2.435%
143	13.631	13.610	13.708	VV	1264	50569		
144	13.716	13.708	13.771	VV	510	15887		
145	13.786	13.771	13.800	VV	544	8488		
146	13.825	13.800	13.873	VV	641	20179		
147	13.900	13.873	13.915	VV	548	9903		
148	13.932	13.915	13.950	VV	731	11477	0.10%	0.005%
149	13.982	13.950	14.018	VV	1317	27870	0.24%	0.012%
150	14.037	14.018	14.051	VV	293	5198	0.04%	0.002%
151	14.095	14.051	14.107	VV	947	16461	0.14%	0.007%
152	14.143	14.107	14.234	VV	457004	5440386	46.68%	2.399%
153	14.269	14.234	14.308	VV	2066	34990	0.30%	0.015%
154	14.339	14.308	14.420	VV	1484	31838	0.27%	0.014%
155	14.441	14.420	14.454	VV	176	2596	0.02%	0.001%
156	14.471	14.454	14.486	VV	198	2401	0.02%	0.001%
157	14.509	14.486	14.521	PV	229	3789	0.03%	0.002%
158	14.556	14.521	14.568	VV	728	15419	0.13%	0.007%
159	14.581	14.568	14.611	VV	867	12996	0.11%	0.006%
160	14.648	14.611	14.678	VV	498	11289	0.10%	0.005%
161	14.705	14.678	14.730	VV	926	12017	0.10%	0.005%
162	14.773	14.730	14.788	PV	333	7096	0.06%	0.003%
163	14.818	14.788	14.841	VV	445	7887	0.07%	0.003%
164	14.849	14.841	14.900	VV	235	6056	0.05%	0.003%
165	14.909	14.900	14.946	VV	259	4395	0.04%	0.002%
166	14.991	14.946	15.011	VV	403	9468	0.08%	0.004%
167	15.030	15.011	15.051	VV	506	7430	0.06%	0.003%
168	15.103	15.051	15.134	VV	629	16263	0.14%	0.007%
169	15.205	15.134	15.224	VV	447129	5439725	46.67%	2.398%
170	15.248	15.224	15.424	VV	892066	11655544	100.00%	5.139%
171	15.435	15.424	15.561	VV	1650	87483	0.75%	0.039%
172	15.569	15.561	15.597	VV	673	12547	0.11%	0.006%
173	15.637	15.597	15.748	VV	12999	312389	2.68%	0.138%
174	15.768	15.748	15.813	VV	2430	56709	0.49%	0.025%
175	15.840	15.813	15.874	VV	1490	26477	0.23%	0.012%
176	15.902	15.874	15.931	VV	448	9464	0.08%	0.004%
177	15.970	15.931	15.998	VV	328	8512	0.07%	0.004%
178	16.007	15.998	16.015	VV	111	729	0.01%	0.000%
179	16.094	16.015	16.113	PV	296	10015	0.09%	0.004%
180	16.160	16.113	16.200	VV	570	13334	0.11%	0.006%
181	16.274	16.200	16.324	VV	419127	5178662	44.43%	2.283%
182	16.339	16.324	16.354	VV	509	6835	0.06%	0.003%
183	16.367	16.354	16.383	VV	269	3399	0.03%	0.001%
184	16.396	16.383	16.437	VV	263	5375	0.05%	0.002%
185	16.470	16.437	16.514	PV	1268	22127	0.19%	0.010%
186	16.659	16.514	16.704	PV	1465	43824	0.38%	0.019%
187	16.715	16.704	16.727	VV	295	3223	0.03%	0.001%
188	16.774	16.727	16.788	VV	433336	5564872	47.74%	2.453%
189	16.805	16.788	17.012	VV	471802	6210953	53.29%	2.738%
190	17.044	17.012	17.084	VV	2260	39329	0.34%	0.017%
191	17.102	17.084	17.119	VV	923	10633	0.09%	0.005%
192	17.157	17.119	17.193	VV	393249	5448539	46.75%	2.402%
193	17.224	17.193	17.385	VV	409165	5468655	46.92%	2.411%
194	17.413	17.385	17.438	VV	374	8018	0.07%	0.004%

Instrument :

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S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

195	17.470	17.438	17.498	VV	364	8119	0.07%	0.004%
196	17.565	17.498	17.578	PV	460	13268		
197	17.605	17.578	17.626	VV	1464	30878		
198	17.673	17.626	17.731	VV	12436	195664		
199	17.778	17.731	17.818	VV	879	29444		
200	17.854	17.818	17.871	VV	584	8790		
201	17.883	17.871	17.924	VV	377	5881	0.05%	0.003%
202	17.968	17.924	17.979	PV	347	6202	0.05%	0.003%
203	18.006	17.979	18.030	VV	1259	19703	0.17%	0.009%
204	18.115	18.030	18.153	VV	383982	5107389	43.82%	2.252%
205	18.161	18.153	18.178	VV	617	5771	0.05%	0.003%
206	18.204	18.178	18.228	VV	2033	27198	0.23%	0.012%
207	18.259	18.228	18.273	VV	1161	18116	0.16%	0.008%
208	18.288	18.273	18.309	VV	568	10223	0.09%	0.005%
209	18.319	18.309	18.331	VV	357	2631	0.02%	0.001%
210	18.353	18.331	18.364	VV	655	7672	0.07%	0.003%
211	18.388	18.364	18.409	VV	1256	18624	0.16%	0.008%
212	18.442	18.409	18.450	PV	1014	13968	0.12%	0.006%
213	18.482	18.450	18.503	VV	6907	133957	1.15%	0.059%
214	18.539	18.503	18.554	VV	412186	5798149	49.75%	2.556%
215	18.571	18.554	18.743	VV	423157	6661096	57.15%	2.937%
216	18.795	18.743	18.899	VV	399651	6201598	53.21%	2.734%
217	18.949	18.899	19.007	VV	372837	5350879	45.91%	2.359%
218	19.049	19.007	19.076	VV	4204	96086	0.82%	0.042%
219	19.104	19.076	19.134	VV	2270	60205	0.52%	0.027%
220	19.153	19.134	19.167	VV	1289	21666	0.19%	0.010%
221	19.204	19.167	19.231	VV	2662	66330	0.57%	0.029%
222	19.246	19.231	19.254	VV	1825	23048	0.20%	0.010%
223	19.265	19.254	19.280	VV	1447	20664	0.18%	0.009%
224	19.344	19.280	19.404	VV	32259	600845	5.16%	0.265%
225	19.422	19.404	19.430	VV	1494	21747	0.19%	0.010%
226	19.460	19.430	19.474	VV	1586	37431	0.32%	0.017%
227	19.511	19.474	19.544	VV	3117	86212	0.74%	0.038%
228	19.592	19.544	19.616	VV	3809	104215	0.89%	0.046%
229	19.645	19.616	19.664	VV	3253	74093	0.64%	0.033%
230	19.675	19.664	19.684	VV	1862	21064	0.18%	0.009%
231	19.734	19.684	19.785	VV	368810	5277423	45.28%	2.327%
232	19.830	19.785	19.870	VV	7853	286735	2.46%	0.126%
233	19.926	19.870	19.938	VV	4401	178910	1.53%	0.079%
234	19.972	19.938	19.988	VV	5928	155287	1.33%	0.068%
235	20.023	19.988	20.057	VV	8446	268662	2.31%	0.118%
236	20.107	20.057	20.141	VV	29814	673151	5.78%	0.297%
237	20.155	20.141	20.164	VV	7376	94886	0.81%	0.042%
238	20.178	20.164	20.191	VV	7359	113492	0.97%	0.050%
239	20.212	20.191	20.231	VV	7135	164430	1.41%	0.072%
240	20.348	20.231	20.360	VV	10635	678253	5.82%	0.299%
241	20.380	20.360	20.406	VV	11721	294668	2.53%	0.130%
242	20.475	20.406	20.511	VV	359859	5588518	47.95%	2.464%
243	20.522	20.511	20.578	VV	13763	506189	4.34%	0.223%
244	20.689	20.578	20.727	VV	19336	1456278	12.49%	0.642%
245	20.741	20.727	20.775	VV	14980	393300	3.37%	0.173%
246	20.831	20.775	20.872	VV	27611	979694	8.41%	0.432%

Instrument :

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ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025

rteres									
247	20.882	20.872	20.890	VV	12923	139148	1.19%	0.061%	
248	20.913	20.890	20.924	VV	13170	267468			
249	21.009	20.924	21.051	VV	16309	1054557			
250	21.069	21.051	21.102	VV	13773	398939			
251	21.124	21.102	21.146	VV	13265	333836			
252	21.223	21.146	21.284	VV	294939	5819112			
253	21.422	21.284	21.441	VV	11429	1013906	8.70%	0.447%	
254	21.455	21.441	21.518	VV	11209	482663	4.14%	0.213%	
255	21.559	21.518	21.624	VV	11616	597594	5.13%	0.263%	
256	21.659	21.624	21.731	VV	13370	582042	4.99%	0.257%	
257	21.740	21.731	21.756	VV	7353	103898	0.89%	0.046%	
258	21.769	21.756	21.817	VV	6780	224256	1.92%	0.099%	
259	21.829	21.817	21.850	VV	5820	111768	0.96%	0.049%	
260	21.875	21.850	21.884	VV	5717	111939	0.96%	0.049%	
261	21.897	21.884	21.928	VV	5755	142647	1.22%	0.063%	
262	21.962	21.928	22.019	VV	5610	262145	2.25%	0.116%	
263	22.046	22.019	22.061	VV	4083	96760	0.83%	0.043%	
264	22.080	22.061	22.094	VV	3617	64612	0.55%	0.028%	
265	22.161	22.094	22.281	VV	204424	5208152	44.68%	2.296%	
266	22.292	22.281	22.304	VV	803	6245	0.05%	0.003%	
267	22.315	22.304	22.327	VV	469	3918	0.03%	0.002%	
Sum of corrected areas:					226816231				

Instrument :
FID_E
ClientSampleId :
S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Rahul Chavli 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

Aliphatic EPH 103025.M Fri Nov 14 04:39:06 2025

Manual Integration Report

Sequence:

FE103025AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3485-01	FE056583.D	ortho-Terphenyl (SURRE)	rahul	10/31/2025 4:28:28 PM	yogesh	10/31/2025 4:28:57	Peak Integrated by Software
Q3485-02	FE056584.D	1-chlorooctadecane (SURRE)	rahul	10/31/2025 4:28:31 PM	yogesh	10/31/2025 4:28:58	Peak Integrated by Software
Q3485-02	FE056584.D	ortho-Terphenyl (SURRE)	rahul	10/31/2025 4:28:31 PM	yogesh	10/31/2025 4:28:58	Peak Integrated by Software
Q3490-01	FE056595.D	ortho-Terphenyl (SURRE)	rahul	10/31/2025 4:28:34 PM	yogesh	10/31/2025 4:29:00	Peak Integrated by Software

Manual Integration Report

Sequence:

FE111325AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB170504BS	FE056811.D	n-Decane (C10)	rahul	11/14/2025 9:12:27 AM	 	 	Peak Integrated by Software
PB170504BSD	FE056812.D	n-Decane (C10)	rahul	11/14/2025 9:12:33 AM	 	 	Peak Integrated by Software
Q3590-03DL	FE056814.D	1-chlorooctadecane (SURR)	rahul	11/14/2025 9:12:38 AM	 	 	Peak Integrated by Software
Q3590-03DL	FE056814.D	ortho-Terphenyl (SURR)	rahul	11/14/2025 9:12:38 AM	 	 	Peak Integrated by Software
Q3604-01MS	FE056816.D	n-Decane (C10)	rahul	11/14/2025 9:12:42 AM	 	 	Peak Integrated by Software
Q3604-01MSD	FE056817.D	n-Decane (C10)	rahul	11/14/2025 9:12:47 AM	 	 	Peak Integrated by Software
Q3624-01	FE056835.D	ortho-Terphenyl (SURR)	rahul	11/14/2025 9:12:54 AM	 	 	Peak Integrated by Software
Q3624-02	FE056836.D	ortho-Terphenyl (SURR)	rahul	11/14/2025 9:12:57 AM	 	 	Peak Integrated by Software



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

FG102925AL

Instrument

FID_g

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	FG111225AL	Instrument	FID_g
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB170503BS	FG016893.D	n-Hexatriacontane (C36)	rahul	11/14/2025 9:08:55 AM	 	 	Peak Integrated by Software
PB170503BSD	FG016894.D	n-Hexatriacontane (C36)	rahul	11/14/2025 9:08:59 AM	 	 	Peak Integrated by Software

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056573.D	30 Oct 2025 09:19	YP\AJ	Ok
2	I.BLK	FE056574.D	30 Oct 2025 09:49	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE056575.D	30 Oct 2025 10:20	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE056576.D	30 Oct 2025 10:50	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE056577.D	30 Oct 2025 11:20	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE056578.D	30 Oct 2025 11:51	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE056579.D	30 Oct 2025 12:21	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE056580.D	30 Oct 2025 12:51	YP\AJ	Ok
9	I.BLK	FE056581.D	30 Oct 2025 13:21	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE056582.D	30 Oct 2025 13:52	YP\AJ	Ok
11	Q3485-01	FE056583.D	30 Oct 2025 14:52	YP\AJ	Ok,M
12	Q3485-02	FE056584.D	30 Oct 2025 15:23	YP\AJ	Ok,M
13	Q3486-01	FE056585.D	30 Oct 2025 15:53	YP\AJ	Ok
14	Q3486-02	FE056586.D	30 Oct 2025 16:25	YP\AJ	Ok
15	Q3486-03	FE056587.D	30 Oct 2025 16:56	YP\AJ	Dilution
16	Q3486-04	FE056588.D	30 Oct 2025 17:26	YP\AJ	Ok
17	Q3486-06	FE056589.D	30 Oct 2025 17:57	YP\AJ	Ok
18	Q3486-07	FE056590.D	30 Oct 2025 18:27	YP\AJ	ReRun
19	Q3486-08	FE056591.D	30 Oct 2025 18:58	YP\AJ	ReRun
20	Q3488-01	FE056592.D	30 Oct 2025 19:28	YP\AJ	Ok
21	Q3488-04	FE056593.D	30 Oct 2025 19:59	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

22	Q3488-06	FE056594.D	30 Oct 2025 20:29	YP\AJ	Dilution
23	Q3490-01	FE056595.D	30 Oct 2025 21:00	YP\AJ	Dilution
24	Q3488-02	FE056596.D	30 Oct 2025 21:30	YP\AJ	Dilution
25	I.BLK	FE056597.D	30 Oct 2025 23:01	YP\AJ	Ok
26	20 PPM ALIPHATIC HC STD	FE056598.D	30 Oct 2025 23:32	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE111325AL

Review By	rahul	Review On	11/14/2025 10:37:31 AM
Supervise By		Supervise On	
SubDirectory	FE111325AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056807.D	13 Nov 2025 08:28	YP\AJ	Ok
2	I.BLK	FE056808.D	13 Nov 2025 08:58	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE056809.D	13 Nov 2025 09:58	YP\AJ	Ok
4	PB170504BL	FE056810.D	13 Nov 2025 10:28	YP\AJ	Ok
5	PB170504BS	FE056811.D	13 Nov 2025 10:59	YP\AJ	Ok,NS
6	PB170504BSD	FE056812.D	13 Nov 2025 11:29	YP\AJ	Ok,NS
7	Q3604-01	FE056813.D	13 Nov 2025 11:59	YP\AJ	Ok
8	Q3590-03DL	FE056814.D	13 Nov 2025 12:29	YP\AJ	Not Ok
9	Q3604-01D	FE056815.D	13 Nov 2025 12:59	YP\AJ	Ok
10	Q3604-01MS	FE056816.D	13 Nov 2025 13:29	YP\AJ	Ok,NS
11	Q3604-01MSD	FE056817.D	13 Nov 2025 13:59	YP\AJ	Ok,NS
12	Q3600-01	FE056818.D	13 Nov 2025 14:29	YP\AJ	Ok
13	I.BLK	FE056819.D	13 Nov 2025 15:30	YP\AJ	Ok
14	20 PPM ALIPHATIC HC STD	FE056820.D	13 Nov 2025 16:00	YP\AJ	Ok
15	Q3611-01	FE056821.D	13 Nov 2025 17:01	YP\AJ	Ok
16	Q3611-02	FE056822.D	13 Nov 2025 17:31	YP\AJ	Ok
17	Q3611-03	FE056823.D	13 Nov 2025 18:02	YP\AJ	Ok
18	Q3611-04	FE056824.D	13 Nov 2025 18:32	YP\AJ	Ok
19	Q3611-05	FE056825.D	13 Nov 2025 19:02	YP\AJ	Ok
20	Q3611-06	FE056826.D	13 Nov 2025 19:32	YP\AJ	Ok
21	Q3611-07	FE056827.D	13 Nov 2025 20:02	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE111325AL

Review By	rahul	Review On	11/14/2025 10:37:31 AM
Supervise By		Supervise On	
SubDirectory	FE111325AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

22	Q3611-08	FE056828.D	13 Nov 2025 20:32	YP\AJ	Ok
23	Q3611-09	FE056829.D	13 Nov 2025 21:02	YP\AJ	Ok
24	Q3611-10	FE056830.D	13 Nov 2025 21:33	YP\AJ	Ok
25	Q3611-13	FE056831.D	13 Nov 2025 22:03	YP\AJ	Ok
26	Q3611-14	FE056832.D	13 Nov 2025 22:33	YP\AJ	Ok
27	Q3611-15	FE056833.D	13 Nov 2025 23:03	YP\AJ	Ok
28	Q3621-02	FE056834.D	13 Nov 2025 23:33	YP\AJ	Ok
29	Q3624-01	FE056835.D	14 Nov 2025 00:03	YP\AJ	Ok,NS
30	Q3624-02	FE056836.D	14 Nov 2025 00:33	YP\AJ	Dilution
31	I.BLK	FE056837.D	14 Nov 2025 01:34	YP\AJ	Ok
32	20 PPM ALIPHATIC HC STD	FE056838.D	14 Nov 2025 02:04	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG102925AL

Review By	yogesh	Review On	10/29/2025 1:10:18 PM
Supervise By	Sohil	Supervise On	10/30/2025 4:00:31 PM
SubDirectory	FG102925AL	HP Acquire Method	HP Processing Method FG102925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016845.D	29 Oct 2025 13:06	YP\AJ	Ok
2	I.BLK	FG016846.D	29 Oct 2025 13:36	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FG016847.D	29 Oct 2025 14:05	YP\AJ	Not Ok
4	50 PPM ALIPHATIC HC STD2	FG016848.D	29 Oct 2025 14:35	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FG016849.D	29 Oct 2025 15:04	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FG016850.D	29 Oct 2025 15:34	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FG016851.D	29 Oct 2025 16:03	YP\AJ	Ok
8	100 PPM ALIPHATIC HC STD1	FG016852.D	29 Oct 2025 16:33	YP\AJ	Ok
9	20 PPM ALIPHATIC HC STD ICV	FG016853.D	29 Oct 2025 17:32	YP\AJ	Ok
10	I.BLK	FG016854.D	29 Oct 2025 19:35	YP\AJ	Ok
11	20 PPM ALIPHATIC HC STD	FG016855.D	29 Oct 2025 20:05	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111225AL

Review By	yogesh	Review On	11/12/2025 9:52:24 AM
Supervise By	rahul	Supervise On	11/13/2025 11:02:45 AM
SubDirectory	FG111225AL	HP Acquire Method	HP Processing Method FG102925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016869.D	12 Nov 2025 07:47	YP\AJ	Ok
2	I.BLK	FG016870.D	12 Nov 2025 08:16	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FG016871.D	12 Nov 2025 08:46	YP\AJ	Ok
4	Q3583-04	FG016872.D	12 Nov 2025 09:19	YP\AJ	Ok
5	Q3583-05	FG016873.D	12 Nov 2025 10:19	YP\AJ	Ok
6	Q3588-01	FG016874.D	12 Nov 2025 10:48	YP\AJ	Ok
7	Q3588-03	FG016875.D	12 Nov 2025 11:17	YP\AJ	Ok
8	Q3588-03DL	FG016876.D	12 Nov 2025 11:47	YP\AJ	Not Ok
9	I.BLK	FG016877.D	12 Nov 2025 12:46	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FG016878.D	12 Nov 2025 13:15	YP\AJ	Ok
11	PB170503BL	FG016879.D	12 Nov 2025 14:14	YP\AJ	Ok
12	PB170503BL	FG016879.D	12 Nov 2025 14:14	YP\AJ	Ok
13	PB170503BL	FG016879.D	12 Nov 2025 14:14	YP\AJ	Ok
14	PB170503BL	FG016879.D	12 Nov 2025 14:14	YP\AJ	Ok
15	PB170503BL	FG016879.D	12 Nov 2025 14:14	YP\AJ	Ok
16	PB170503BL	FG016879.D	12 Nov 2025 14:14	YP\AJ	Ok
17	PB170503BL	FG016879.D	12 Nov 2025 14:14	YP\AJ	Ok
18	Q3601-01	FG016880.D	12 Nov 2025 14:43	YP\AJ	Ok
19	Q3601-02	FG016881.D	12 Nov 2025 15:13	YP\AJ	Ok
20	Q3601-05	FG016882.D	12 Nov 2025 15:49	YP\AJ	Ok
21	Q3601-06	FG016883.D	12 Nov 2025 16:26	YP\AJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111225AL

Review By	yogesh	Review On	11/12/2025 9:52:24 AM
Supervise By	rahul	Supervise On	11/13/2025 11:02:45 AM
SubDirectory	FG111225AL	HP Acquire Method	HP Processing Method FG102925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

22	Q3601-09	FG016884.D	12 Nov 2025 16:55	YP\AJ	Ok
23	Q3601-10	FG016885.D	12 Nov 2025 17:25	YP\AJ	Ok
24	Q3601-13	FG016886.D	12 Nov 2025 17:54	YP\AJ	Ok
25	Q3601-14	FG016887.D	12 Nov 2025 18:24	YP\AJ	Ok
26	Q3601-17	FG016888.D	12 Nov 2025 18:53	YP\AJ	Ok
27	Q3601-18	FG016889.D	12 Nov 2025 19:23	YP\AJ	Ok
28	Q3604-02	FG016890.D	12 Nov 2025 19:53	YP\AJ	Ok
29	I.BLK	FG016891.D	12 Nov 2025 20:51	YP\AJ	Ok
30	20 PPM ALIPHATIC HC STD	FG016892.D	12 Nov 2025 21:21	YP\AJ	Ok
31	PB170503BS	FG016893.D	12 Nov 2025 22:20	YP\AJ	Ok,NS
32	PB170503BSD	FG016894.D	12 Nov 2025 22:49	YP\AJ	Ok,NS
33	Q3587-01	FG016895.D	12 Nov 2025 23:19	YP\AJ	Ok
34	Q3587-01D	FG016896.D	12 Nov 2025 23:48	YP\AJ	Ok
35	Q3587-01MS	FG016897.D	13 Nov 2025 00:17	YP\AJ	Ok
36	Q3587-01MSD	FG016898.D	13 Nov 2025 00:47	YP\AJ	Ok
37	I.BLK	FG016899.D	13 Nov 2025 01:46	YP\AJ	Ok
38	20 PPM ALIPHATIC HC STD	FG016900.D	13 Nov 2025 02:15	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method
			FE103025AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056573.D	30 Oct 2025 09:19		YP\AJ	Ok
2	I.BLK	I.BLK	FE056574.D	30 Oct 2025 09:49		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE056575.D	30 Oct 2025 10:20		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE056576.D	30 Oct 2025 10:50		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056577.D	30 Oct 2025 11:20		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE056578.D	30 Oct 2025 11:51		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE056579.D	30 Oct 2025 12:21		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056580.D	30 Oct 2025 12:51		YP\AJ	Ok
9	I.BLK	I.BLK	FE056581.D	30 Oct 2025 13:21		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056582.D	30 Oct 2025 13:52		YP\AJ	Ok
11	Q3485-01	TR-04-102925	FE056583.D	30 Oct 2025 14:52		YP\AJ	Ok,M
12	Q3485-02	TR-04-102925-E2	FE056584.D	30 Oct 2025 15:23		YP\AJ	Ok,M
13	Q3486-01	TP3	FE056585.D	30 Oct 2025 15:53		YP\AJ	Ok
14	Q3486-02	TP3-E2	FE056586.D	30 Oct 2025 16:25		YP\AJ	Ok
15	Q3486-03	TP4	FE056587.D	30 Oct 2025 16:56	Need 5X,Surrogate fail	YP\AJ	Dilution
16	Q3486-04	TP4-E2	FE056588.D	30 Oct 2025 17:26		YP\AJ	Ok
17	Q3486-06	TP5-E2	FE056589.D	30 Oct 2025 17:57		YP\AJ	Ok
18	Q3486-07	TP6	FE056590.D	30 Oct 2025 18:27	Surrogate fail	YP\AJ	ReRun

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM	PP24769,PP24774		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3486-08	TP6-E2	FE056591.D	30 Oct 2025 18:58	Surrogate fail	YP\AJ	ReRun
20	Q3488-01	MOO-25-0294-0298	FE056592.D	30 Oct 2025 19:28		YP\AJ	Ok
21	Q3488-04	MOO-25-0302-0310	FE056593.D	30 Oct 2025 19:59	Need 500X	YP\AJ	Dilution
22	Q3488-06	MOO-25-0311-0313	FE056594.D	30 Oct 2025 20:29	Need further 20X	YP\AJ	Dilution
23	Q3490-01	LAW-25-0151	FE056595.D	30 Oct 2025 21:00	Need further 10X	YP\AJ	Dilution
24	Q3488-02	MOO-25-0299	FE056596.D	30 Oct 2025 21:30	Need further 20X	YP\AJ	Dilution
25	I.BLK	I.BLK	FE056597.D	30 Oct 2025 23:01		YP\AJ	Ok
26	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056598.D	30 Oct 2025 23:32		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE111325AL

Review By	rahul	Review On	11/14/2025 10:37:31 AM
Supervise By		Supervise On	
SubDirectory	FE111325AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056807.D	13 Nov 2025 08:28		YP\AJ	Ok
2	I.BLK	I.BLK	FE056808.D	13 Nov 2025 08:58		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056809.D	13 Nov 2025 09:58		YP\AJ	Ok
4	PB170504BL	PB170504BL	FE056810.D	13 Nov 2025 10:28		YP\AJ	Ok
5	PB170504BS	PB170504BS	FE056811.D	13 Nov 2025 10:59		YP\AJ	Ok,NS
6	PB170504BSD	PB170504BSD	FE056812.D	13 Nov 2025 11:29		YP\AJ	Ok,NS
7	Q3604-01	S-1	FE056813.D	13 Nov 2025 11:59		YP\AJ	Ok
8	Q3590-03DL	MOO-25-0317-0318-CO	FE056814.D	13 Nov 2025 12:29	Not Used	YP\AJ	Not Ok
9	Q3604-01D	Q3604-01D	FE056815.D	13 Nov 2025 12:59		YP\AJ	Ok
10	Q3604-01MS	S-1MS	FE056816.D	13 Nov 2025 13:29	FE056813.D	YP\AJ	Ok,NS
11	Q3604-01MSD	S-1MSD	FE056817.D	13 Nov 2025 13:59	FE056813.D!FE056816.D	YP\AJ	Ok,NS
12	Q3600-01	CENTRAL-ROW-CONC	FE056818.D	13 Nov 2025 14:29		YP\AJ	Ok
13	I.BLK	I.BLK	FE056819.D	13 Nov 2025 15:30		YP\AJ	Ok
14	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056820.D	13 Nov 2025 16:00		YP\AJ	Ok
15	Q3611-01	AU-713-01	FE056821.D	13 Nov 2025 17:01		YP\AJ	Ok
16	Q3611-02	AU-713-02	FE056822.D	13 Nov 2025 17:31		YP\AJ	Ok
17	Q3611-03	AU-713-03	FE056823.D	13 Nov 2025 18:02		YP\AJ	Ok
18	Q3611-04	AU-713-04	FE056824.D	13 Nov 2025 18:32		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE111325AL

Review By	rahul	Review On	11/14/2025 10:37:31 AM
Supervise By		Supervise On	
SubDirectory	FE111325AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3611-05	AU-713-05	FE056825.D	13 Nov 2025 19:02		YPIAJ	Ok
20	Q3611-06	AU-713-06	FE056826.D	13 Nov 2025 19:32		YPIAJ	Ok
21	Q3611-07	AU-713-07	FE056827.D	13 Nov 2025 20:02		YPIAJ	Ok
22	Q3611-08	AU-713-08	FE056828.D	13 Nov 2025 20:32		YPIAJ	Ok
23	Q3611-09	AU-713-09	FE056829.D	13 Nov 2025 21:02		YPIAJ	Ok
24	Q3611-10	AU-713-10	FE056830.D	13 Nov 2025 21:33		YPIAJ	Ok
25	Q3611-13	AU-713-13	FE056831.D	13 Nov 2025 22:03		YPIAJ	Ok
26	Q3611-14	AU-713-14	FE056832.D	13 Nov 2025 22:33		YPIAJ	Ok
27	Q3611-15	AU-713-15	FE056833.D	13 Nov 2025 23:03		YPIAJ	Ok
28	Q3621-02	VNJ-231	FE056834.D	13 Nov 2025 23:33		YPIAJ	Ok
29	Q3624-01	OK-02-11122025	FE056835.D	14 Nov 2025 00:03		YPIAJ	Ok,NS
30	Q3624-02	OK-02-11122025-E2	FE056836.D	14 Nov 2025 00:33	Need 2X	YPIAJ	Dilution
31	I.BLK	I.BLK	FE056837.D	14 Nov 2025 01:34		YPIAJ	Ok
32	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056838.D	14 Nov 2025 02:04		YPIAJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG102925AL

Review By	yogesh	Review On	10/29/2025 1:10:18 PM
Supervise By	Sohil	Supervise On	10/30/2025 4:00:31 PM
SubDirectory	FG102925AL	HP Acquire Method	HP Processing Method FG102925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FG016845.D	29 Oct 2025 13:06		YP\AJ	Ok
2	I.BLK	I.BLK	FG016846.D	29 Oct 2025 13:36		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FG016847.D	29 Oct 2025 14:05		YP\AJ	Not Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FG016848.D	29 Oct 2025 14:35		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016849.D	29 Oct 2025 15:04		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FG016850.D	29 Oct 2025 15:34		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FG016851.D	29 Oct 2025 16:03		YP\AJ	Ok
8	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FG016852.D	29 Oct 2025 16:33		YP\AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016853.D	29 Oct 2025 17:32		YP\AJ	Ok
10	I.BLK	I.BLK	FG016854.D	29 Oct 2025 19:35		YP\AJ	Ok
11	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016855.D	29 Oct 2025 20:05		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111225AL

Review By	yogesh	Review On	11/12/2025 9:52:24 AM
Supervise By	rahul	Supervise On	11/13/2025 11:02:45 AM
SubDirectory	FG111225AL	HP Acquire Method	HP Processing Method FG102925AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FG016869.D	12 Nov 2025 07:47		YPIAJ	Ok
2	I.BLK	I.BLK	FG016870.D	12 Nov 2025 08:16		YPIAJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016871.D	12 Nov 2025 08:46		YPIAJ	Ok
4	Q3583-04	CHRT27080	FG016872.D	12 Nov 2025 09:19		YPIAJ	Ok
5	Q3583-05	CHRT27080	FG016873.D	12 Nov 2025 10:19		YPIAJ	Ok
6	Q3588-01	TR-06-11072025	FG016874.D	12 Nov 2025 10:48		YPIAJ	Ok
7	Q3588-03	TR-01-11072025	FG016875.D	12 Nov 2025 11:17		YPIAJ	Ok
8	Q3588-03DL	TR-01-11072025DL	FG016876.D	12 Nov 2025 11:47	Not Required	YPIAJ	Not Ok
9	I.BLK	I.BLK	FG016877.D	12 Nov 2025 12:46		YPIAJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016878.D	12 Nov 2025 13:15		YPIAJ	Ok
11	PB170503BL	TR-01-11072025DLBL	FG016879.D	12 Nov 2025 14:14		YPIAJ	Ok
12	PB170503BL	TR-01-11072025DLBL	FG016879.D	12 Nov 2025 14:14		YPIAJ	Ok
13	PB170503BL	TR-01-11072025DLBL	FG016879.D	12 Nov 2025 14:14		YPIAJ	Ok
14	PB170503BL	TR-01-11072025DLBL	FG016879.D	12 Nov 2025 14:14		YPIAJ	Ok
15	PB170503BL	TR-01-11072025DLBL	FG016879.D	12 Nov 2025 14:14		YPIAJ	Ok
16	PB170503BL	TR-01-11072025DLBL	FG016879.D	12 Nov 2025 14:14		YPIAJ	Ok
17	PB170503BL	TR-01-11072025DLBL	FG016879.D	12 Nov 2025 14:14		YPIAJ	Ok
18	Q3601-01	TP-1	FG016880.D	12 Nov 2025 14:43		YPIAJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111225AL

Review By	yogesh	Review On	11/12/2025 9:52:24 AM
Supervise By	rahul	Supervise On	11/13/2025 11:02:45 AM
SubDirectory	FG111225AL	HP Acquire Method	HP Processing Method FG102925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3601-02	TP-1-EPH	FG016881.D	12 Nov 2025 15:13		YPIAJ	Ok
20	Q3601-05	TP-2	FG016882.D	12 Nov 2025 15:49		YPIAJ	Ok
21	Q3601-06	TP-2-EPH	FG016883.D	12 Nov 2025 16:26		YPIAJ	Ok
22	Q3601-09	TP-3	FG016884.D	12 Nov 2025 16:55		YPIAJ	Ok
23	Q3601-10	TP-3-EPH	FG016885.D	12 Nov 2025 17:25		YPIAJ	Ok
24	Q3601-13	TP-4	FG016886.D	12 Nov 2025 17:54		YPIAJ	Ok
25	Q3601-14	TP-4-EPH	FG016887.D	12 Nov 2025 18:24		YPIAJ	Ok
26	Q3601-17	TP-5	FG016888.D	12 Nov 2025 18:53		YPIAJ	Ok
27	Q3601-18	TP-5-EPH	FG016889.D	12 Nov 2025 19:23		YPIAJ	Ok
28	Q3604-02	S-2	FG016890.D	12 Nov 2025 19:53		YPIAJ	Ok
29	I.BLK	I.BLK	FG016891.D	12 Nov 2025 20:51		YPIAJ	Ok
30	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016892.D	12 Nov 2025 21:21		YPIAJ	Ok
31	PB170503BS	PB170503BS	FG016893.D	12 Nov 2025 22:20		YPIAJ	Ok,NS
32	PB170503BSD	PB170503BSD	FG016894.D	12 Nov 2025 22:49		YPIAJ	Ok,NS
33	Q3587-01	NB-08-110725	FG016895.D	12 Nov 2025 23:19		YPIAJ	Ok
34	Q3587-01D	Q3587-01D	FG016896.D	12 Nov 2025 23:48		YPIAJ	Ok
35	Q3587-01MS	NB-08-110725MS	FG016897.D	13 Nov 2025 00:17	FG016895.D	YPIAJ	Ok
36	Q3587-01MSD	NB-08-110725MSD	FG016898.D	13 Nov 2025 00:47	FG016895.D!FG016897.D	YPIAJ	Ok
37	I.BLK	I.BLK	FG016899.D	13 Nov 2025 01:46		YPIAJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111225AL

Review By	yogesh	Review On	11/12/2025 9:52:24 AM
Supervise By	rahul	Supervise On	11/13/2025 11:02:45 AM
SubDirectory	FG111225AL	HP Acquire Method	HP Processing Method FG102925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			
38	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016900.D
			13 Nov 2025 02:15
			YP\AJ
			Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/12/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 11/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:05
Out Date: 11/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137855

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3604-01	S-1	1	1.15	10.36	11.51	9.73	82.8	
Q3604-02	S-2	2	1.13	10.26	11.39	9.62	82.7	
Q3606-01	DELUMPER FEED	3	1.14	11.46	12.6	3.16	17.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

137855

WorkList Name : %1-111125

WorkList ID : 193035

Department : Wet-Chemistry

Date : 11-11-2025 08:47:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3604-01	S-1	Solid	Percent Solids	Cool 4 deg C	ROMA02	D41	11/10/2025	Chemtech -SO
Q3604-02	S-2	Solid	Percent Solids	Cool 4 deg C	ROMA02	D41	11/10/2025	Chemtech -SO
Q3606-01	DELUMPER FEED	Solid	Percent Solids	Cool 4 deg C	ALSE01	D31	10/31/2025	Chemtech -SO

Date/Time 11-11-25 15:00

Raw Sample Received by: J. W. C.

Raw Sample Relinquished by: R. C. (Est-Web)

Date/Time

11-11-25

Raw Sample Received by:

RS (Est-Web)

Raw Sample Relinquished by:

RS (Est-Web)

SOP ID: MNJDEP-EPH-8

Clean Up SOP #: N/A **Extraction Start Date :** 11/12/2025

Matrix : Solid **Extraction Start Time :** 10:15

Welgh By: EH **Extraction By:** RJ **Extraction End Date :** 11/12/2025

Balance check: EH **Filter By:** RJ **Extraction End Time :** 14:15

Balance ID: EX-SC-2 **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: N/A **Hood ID:** 3,7 **Supervisor By :** RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP25005
Surrogate	1.0ML	100 PPM	PP25012
Fractionation Surrogate	1.0ML	100 PPM	PP24994
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2659
Baked Na2SO4	N/A	EP2655
Sand	N/A	E3951
Hexane	N/A	E3981
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID: N/A **Envap ID:** N-EVAP-02

KD Bath Temperature: N/A **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
<u>11/12/25</u>	<u>RS (Ext Lab)</u>	<u>Y-P-Pest+P-Q</u>
<u>14:20</u>	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 11/12/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170504BL	PB170504BL	EPH_NF	30.01	N/A	ritesh	Evelyn	2			U1-1
PB170504BS	PB170504BS	EPH_NF	30.03	N/A	ritesh	Evelyn	2			2
PB170504BSD	PB170504BSD	EPH_NF	30.02	N/A	ritesh	Evelyn	2			3
Q3601-01	TP-1	EPH_NF	30.04	N/A	ritesh	Evelyn	2	E		4
Q3601-02	TP-1-EPH	EPH_NF	30.08	N/A	ritesh	Evelyn	2			5
Q3601-05	TP-2	EPH_NF	30.07	N/A	ritesh	Evelyn	2	E		6
Q3601-06	TP-2-EPH	EPH_NF	30.05	N/A	ritesh	Evelyn	2			U2-1
Q3601-09	TP-3	EPH_NF	30.03	N/A	ritesh	Evelyn	2	E		2
Q3601-10	TP-3-EPH	EPH_NF	30.07	N/A	ritesh	Evelyn	2			3
Q3601-13	TP-4	EPH_NF	30.04	N/A	ritesh	Evelyn	2	E		4
Q3601-14	TP-4-EPH	EPH_NF	30.01	N/A	ritesh	Evelyn	2			5
Q3601-17	TP-5	EPH_NF	30.05	N/A	ritesh	Evelyn	2	E		6
Q3601-18	TP-5-EPH	EPH_NF	30.08	N/A	ritesh	Evelyn	2			U3-1
Q3604-01	S-1	EPH_NF	30.09	N/A	ritesh	Evelyn	2	A		2
Q3604-01DUP	S-1DUP	EPH_NF	30.07	N/A	ritesh	Evelyn	2	A		3
Q3604-01MS	S-1MS	EPH_NF	30.03	N/A	ritesh	Evelyn	2	A		4
Q3604-01MSD	S-1MSD	EPH_NF	30.01	N/A	ritesh	Evelyn	2	A		5
Q3604-02	S-2	EPH_NF	30.06	N/A	ritesh	Evelyn	2	A		6

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3601
 WorkList ID : 193063
 Department : Extraction
 Date : 11-12-2025 08:34:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3601-01	TP-1	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-02	TP-1-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-05	TP-2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-06	TP-2-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-09	TP-3	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-10	TP-3-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-13	TP-4	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-14	TP-4-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-17	TP-5	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3601-18	TP-5-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	11/10/2025	NJEPH
Q3604-01	S-1	Solid	EPH_NF	Cool 4 deg C	ROMA02	D41	11/10/2025	NJEPH
Q3604-02	S-2	Solid	EPH_NF	Cool 4 deg C	ROMA02	D41	11/10/2025	NJEPH

Date/Time 11/12/25 10:10
Raw Sample Received by: RJ (Ext 666)
Raw Sample Relinquished by: RJ (Ext 666)

Date/Time 11/12/25 10:35
Raw Sample Received by: RJ (Ext 666)
Raw Sample Relinquished by: RJ (Ext 666)

Prep Standard - Chemical Standard Summary

Order ID : Q3604

Test : EPH_NF

Prepbatch ID : PB170504,

Sequence ID/Qc Batch ID: FE111325AL,FG111225AL,

Standard ID :

EP2655,EP2659,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24994,PP25005,PP25012,

Chemical ID :

E3875,E3951,E3956,E3974,E3979,E3980,E3981,E3982,P12364,P13280,P13281,P13620,P13690,P14033,P14034,P14035,P14036,P14037,P14127,P14128,P14129,P14130,P14131,P14132,P14133,P14134,P14135,P14136,P14151,P14152,P14153,P14154,P14155,P14170,P14171,P14172,P14173,P14195,P14196,P14197,P14198,P14199,P14200,P14201,P14202,P14203,P14204,W3234,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/24/2025
<u>FROM</u> 4000.00000gram of E3875 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipettelID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2659	11/03/2025	04/16/2026	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 11/03/2025
<u>FROM</u> 8000.00000ml of E3980 + 8000.00000ml of E3982 = Final Quantity: 16000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
781	100 PPM Aliphatic HC Working STD (Restek)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = Final Quantity: 25.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = Final Quantity: 25.000 ml								

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
783	50 PPM Aliphatic HC STD	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.50000ml of W3234 + 0.50000ml of PP24768 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
785	10 PPM Aliphatic HC STD	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1331	100 PPM NJEPH Fractionating Surrogate	PP24994	10/09/2025	04/09/2026	Abdul Mirza	None	None	Yogesh Patel
								10/10/2025

FROM 1.25000ml of P14170 + 1.25000ml of P14171 + 1.25000ml of P14172 + 1.25000ml of P14173 + 195.00000ml of E3974 = Final Quantity: 200.000 ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1330	100 PPM NJEPH Spike Solution	PP25005	10/22/2025	04/22/2026	Abdul Mirza	None	None	Yogesh Patel 11/04/2025
<u>FROM</u>	5.00000ml of P14127 + 5.00000ml of P14128 + 5.00000ml of P14129 + 5.00000ml of P14130 + 5.00000ml of P14131 + 5.00000ml of P14132 + 5.00000ml of P14133 + 5.00000ml of P14134 + 5.00000ml of P14135 + 5.00000ml of P14136 + 5.00000ml of P14195 + 5.00000ml of P14196 + 5.00000ml of P14197 + 5.00000ml of P14198 + 5.00000ml of P14199 + 5.00000ml of P14200 + 5.00000ml of P14201 + 5.00000ml of P14202 + 5.00000ml of P14203 + 5.00000ml of P14204 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1339	100 PPM NJEPH Surrogate Spike	PP25012	10/27/2025	04/27/2026	Abdul Mirza	None	None	Yogesh Patel 11/04/2025
<u>FROM</u>	1.00000ml of P14033 + 1.00000ml of P14034 + 1.00000ml of P14035 + 1.00000ml of P14036 + 1.00000ml of P14037 + 1.00000ml of P14151 + 1.00000ml of P14152 + 1.00000ml of P14153 + 1.00000ml of P14154 + 1.00000ml of P14155 + 490.00000ml of E3979 = Final Quantity: 500.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	07/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/10/2027	09/26/2025 / Riteshkumar	09/26/2025 / Riteshkumar	E3974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24L1062001	10/04/2027	10/15/2025 / RITESHKUMAR	09/29/2025 / Riteshkumar	E3979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	10/10/2025 / RUPESH	10/10/2025 / RUPESH	E3980

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/30/2026	10/27/2025 / RUPESH	10/22/2025 / RUPESH	E3981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24L1062001	10/04/2027	10/31/2025 / RUPESH	10/31/2025 / RUPESH	E3982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14034

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14035

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14036

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14037

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	07/31/2032	10/22/2025 / Abdul	09/16/2025 / Abdul	P14128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14129

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14131

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14132

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14133

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14134

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14152

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14153

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14171

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14172

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14196

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14197

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14198

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14199

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 1/12/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantors**[™]



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 7/16/25

E3956



Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors**™



Material No.: 9254-03

Batch No.: 24L1062001

Manufactured Date: 2024-10-04

Expiration Date: 2027-10-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.1
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3979



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

REC. on 10/10/25
RJ

E3980

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Received on 10/22/25

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3981

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors**™



Material No.: 9254-03

Batch No.: 24L1062001

Manufactured Date: 2024-10-04

Expiration Date: 2027-10-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.1
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 10/29/25

E3982

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14127
P14141
15
9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14127
P14141
15
9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14127
P14141
15
9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14127
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15
9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14127
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9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
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Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

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9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
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P14127
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9/16/25

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Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
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7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
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13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232 +/- 50.0193 +/- 59.9689	µg/mL Gravimetric Unstressed Stressed
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271 +/- 50.0358 +/- 59.9888	µg/mL Gravimetric Unstressed Stressed
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841 +/- 49.8538 +/- 59.7705	µg/mL Gravimetric Unstressed Stressed
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784 +/- 49.8299 +/- 59.7419	µg/mL Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349 +/- 50.0689 +/- 60.0284	µg/mL Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244 +/- 50.0246 +/- 59.9753	µg/mL Gravimetric Unstressed Stressed

8	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	2,004.7 µg/mL	+/-	11.7645	µg/mL	Gravimetric
				+/-	49.7710	µg/mL	Unstressed
				+/-	59.6712	µg/mL	Stressed
9	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	(Lot MKCF7888)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
10	n-Heneicosane (C21) CAS # 629-94-7 Purity 99%	(Lot MKCL3226)	2,000.7 µg/mL	+/-	11.7410	µg/mL	Gravimetric
				+/-	49.6717	µg/mL	Unstressed
				+/-	59.5522	µg/mL	Stressed
11	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	2,005.3 µg/mL	+/-	11.7684	µg/mL	Gravimetric
				+/-	49.7876	µg/mL	Unstressed
				+/-	59.6911	µg/mL	Stressed
12	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
13	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	2,014.0 µg/mL	+/-	11.8193	µg/mL	Gravimetric
				+/-	50.0027	µg/mL	Unstressed
				+/-	59.9491	µg/mL	Stressed
14	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
				+/-	49.7048	µg/mL	Unstressed
				+/-	59.5919	µg/mL	Stressed
15	n-Triacontane (C30) CAS # 638-68-6 Purity 97%	(Lot MKCQ9436)	2,011.1 µg/mL	+/-	11.8025	µg/mL	Gravimetric
				+/-	49.9316	µg/mL	Unstressed
				+/-	59.8637	µg/mL	Stressed
16	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
				+/-	49.9531	µg/mL	Unstressed
				+/-	59.8895	µg/mL	Stressed
17	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	2,006.7 µg/mL	+/-	11.7762	µg/mL	Gravimetric
				+/-	49.8207	µg/mL	Unstressed
				+/-	59.7308	µg/mL	Stressed
18	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot Z27H018)	2,017.3 µg/mL	+/-	11.8388	µg/mL	Gravimetric
				+/-	50.0855	µg/mL	Unstressed
				+/-	60.0483	µg/mL	Stressed
19	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 96%	(Lot 0000145137)	2,017.3 µg/mL	+/-	11.8385	µg/mL	Gravimetric
				+/-	50.0842	µg/mL	Unstressed
				+/-	60.0467	µg/mL	Stressed
20	n-Tetracontane (C40) CAS # 4181-95-7 Purity 99%	(Lot BSBME)	2,008.7 µg/mL	+/-	11.7880	µg/mL	Gravimetric
				+/-	49.8703	µg/mL	Unstressed
				+/-	59.7903	µg/mL	Stressed
Solvent: Hexane/Carbon disulfide (80:20)							
	CAS # 110-54-3/75-15-0						
	Purity 99%						

Column:
30m x 0.25mm x 0.25µm
Pxx-5 (cat.#10223)

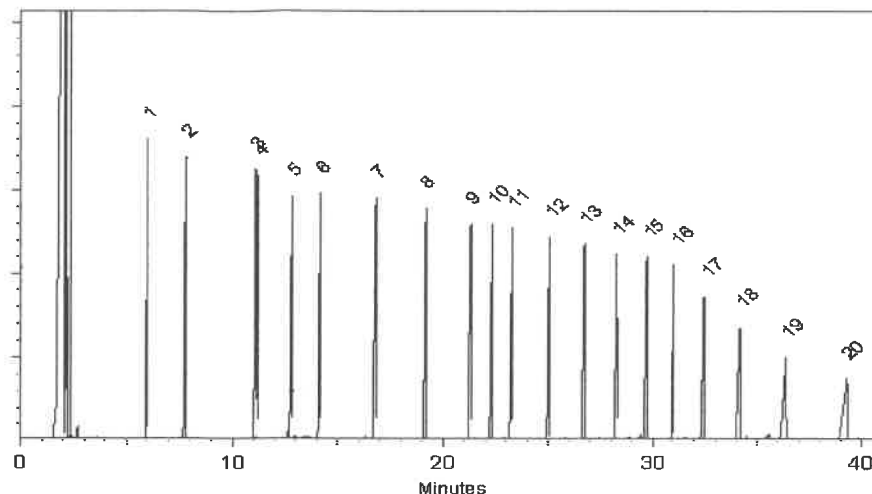
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022

Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

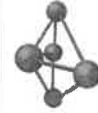
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



CERTIFIED WEIGHT REPORT

Part Number: **95999**

Lot Number: **040524**

Description: **NJ EPH Aliphatic n-Hydrocarbons - Revised**
20 components

Expiration Date: **040534**

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

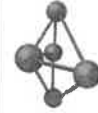
P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
																(Solvent Safety Info. On Attached pg.)	
																CAS#	
																OSHA PEL (TWA)	
																LD50	
1.	2-Methylnaphthalene	(0214)	MKB3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

P13278
Y.P.
P13287
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Expanded
Uncertainty
($\pm$) (µg/mL)

Actual
Conc (µg/mL)

Actual
Weight(g)

Target
Weight(g)

Purity
Uncertainty
(%)

Nominal
Conc (µg/mL)

Initial
Vol. (mL)

DIL
Factor

Lot
Number

(RM#)

Part Number

Compound

Compound

Compound

SDS Information

(Solvent Safety Info. On Attached pg.)
CAS#

OSHA PEL (TWA)
LD50

1. 2-Methylnaphthalene	(0214)	MKB3783V	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2. Naphthalene	(0222)	MKB28680V	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ /8H)	or-rat 490mg/kg
3. n-Nonane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ /8H)	ivn-mus 218mg/kg
4. n-Decane	95708	120222	1.00	25.00	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5. n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6. n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7. n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8. n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9. n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10. n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11. n-Docosane	95708	120222	1.00	25.00	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12. n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13. n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14. n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15. n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16. n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17. n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18. n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-08-8	N/A	N/A
19. n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20. n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
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P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

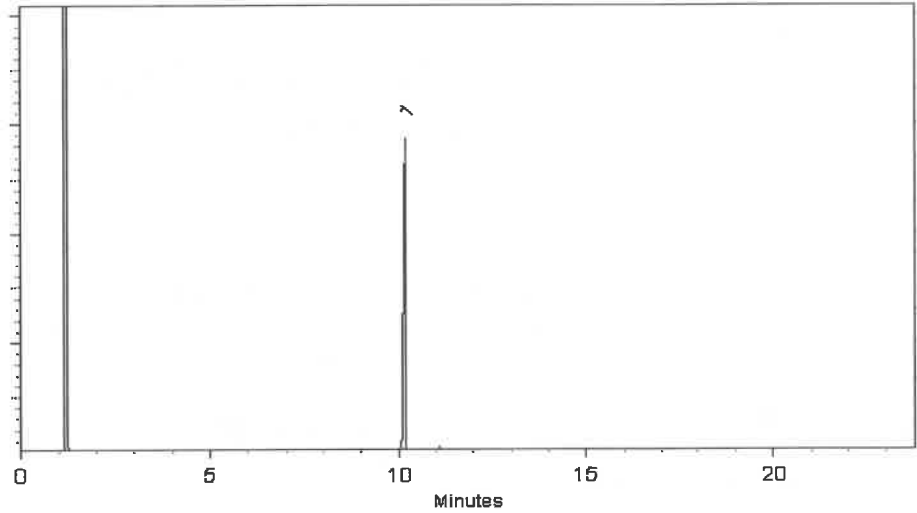
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

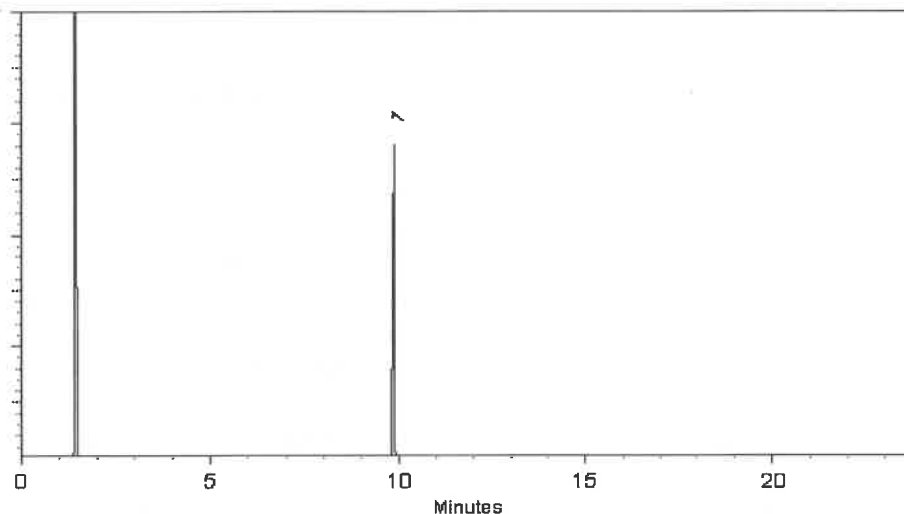
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 31098 **Lot No.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

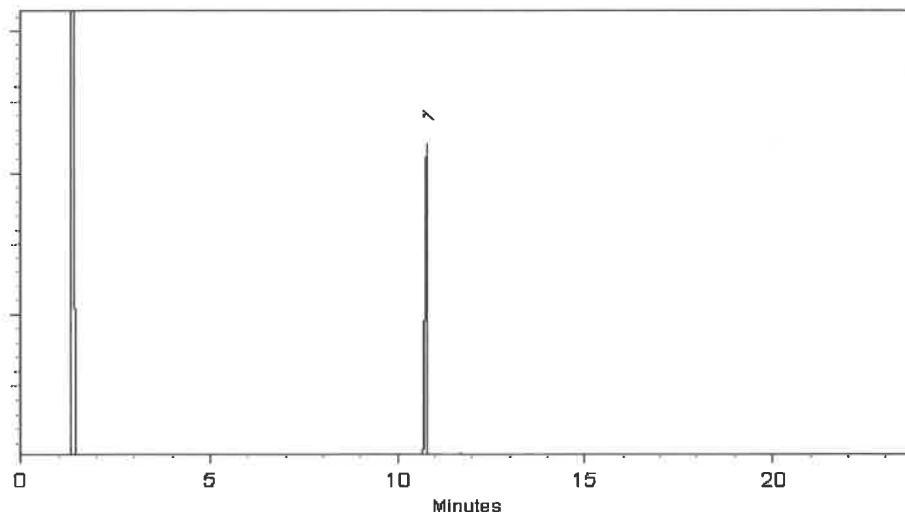
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

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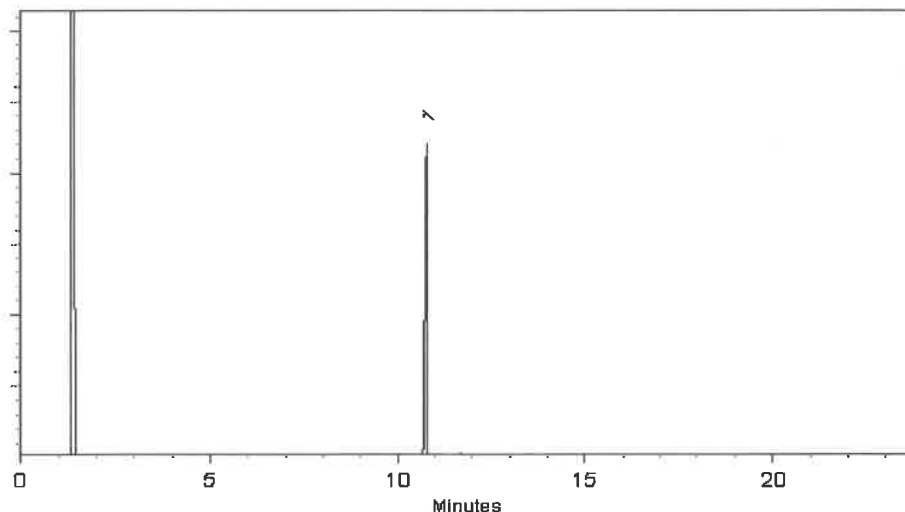
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10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

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Brittany Federinko - Operations Tech II

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P14028
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P14042 } RC/
6/2/25

CERTIFIED VALUES

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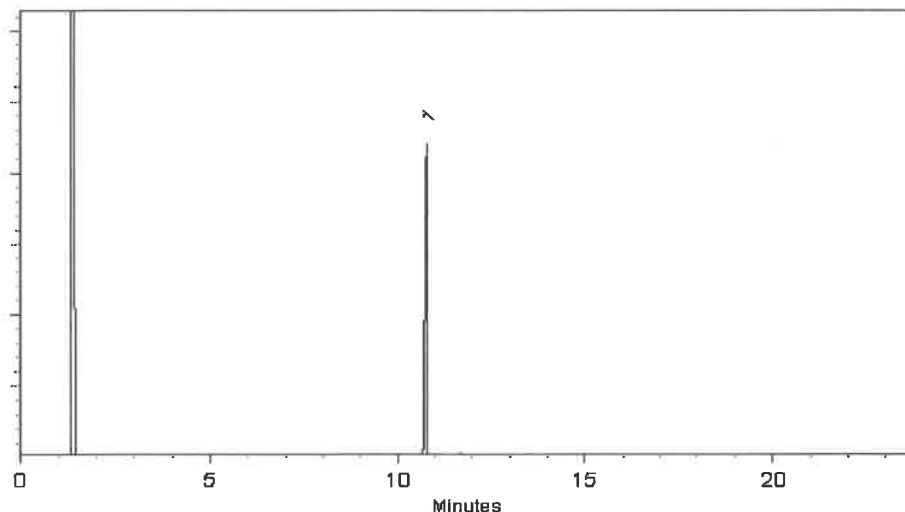
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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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P14042 } RC/
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CERTIFIED VALUES

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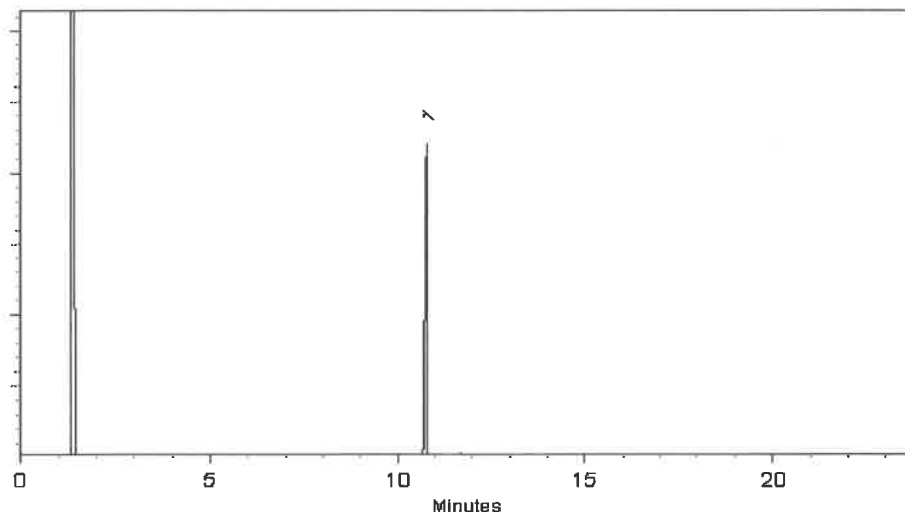
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Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

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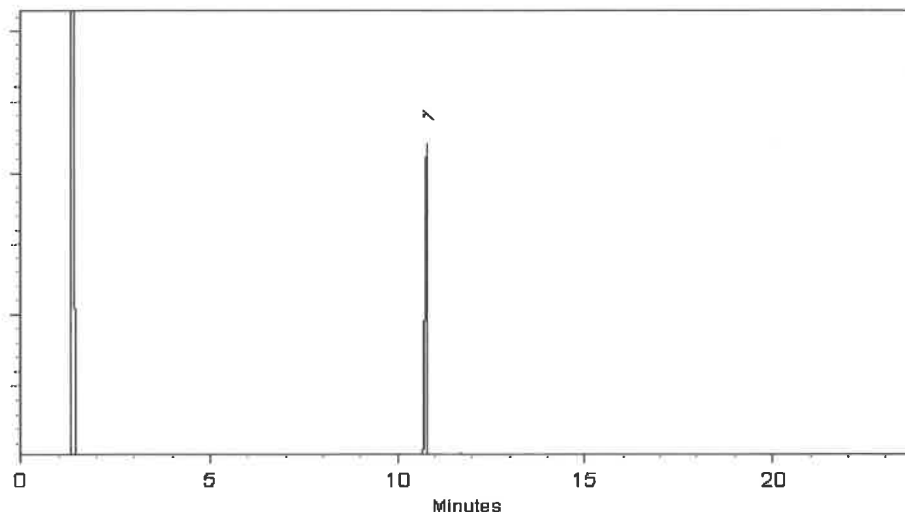
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10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

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Catalog No. : 31480 **Lot No.:** A0227585

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00024555	99%	4,006.0 µg/mL	+/- 180.4609
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,012.0 µg/mL	+/- 180.7312

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P14170
↓
P14189
/

10/3/2025



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Expiration Date : June 30, 2031 **Storage:** 10°C or colder

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Solvent: Hexane
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P14170
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Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00024555	99%	4,006.0 µg/mL	+/- 180.4609
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,012.0 µg/mL	+/- 180.7312

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P14170
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P14189
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10/3/2025



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MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Solvent: Hexane
CAS # 110-54-3
Purity 99%

P14170
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P14189
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10/3/2025



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Catalog No. : 30543 **Lot No.:** A0231145

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14195 } (40)
↓
P14234
↓
RAU
10/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.7 µg/mL	+/- 9.0431
2	Naphthalene	91-20-3	STBK9311	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	200.6 µg/mL	+/- 9.0402
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	201.1 µg/mL	+/- 9.0608
7	Phenanthrene	85-01-8	MKCV8193	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCV9141	99%	201.2 µg/mL	+/- 9.0655
9	Fluoranthene	206-44-0	A0458721	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCL8032	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I80012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP250926RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.8 µg/mL	+/- 9.0474
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.2 µg/mL	+/- 9.0655
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	200.8 µg/mL	+/- 9.0474



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Catalog No. : 30543 **Lot No.:** A0231145

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14195 } (40)
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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.7 µg/mL	+/- 9.0431
2	Naphthalene	91-20-3	STBK9311	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	200.6 µg/mL	+/- 9.0402
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	201.1 µg/mL	+/- 9.0608
7	Phenanthrene	85-01-8	MKCV8193	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCW9141	99%	201.2 µg/mL	+/- 9.0655
9	Fluoranthene	206-44-0	A0458721	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCL8032	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I80012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP250926RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.8 µg/mL	+/- 9.0474
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.2 µg/mL	+/- 9.0655
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	200.8 µg/mL	+/- 9.0474



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Catalog No. : 30543 **Lot No.:** A0231145

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Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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Description : NJEPH Aromatics Matrix Spike Mix

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Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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Expiration Date : September 30, 2031 **Storage:** 10°C or colder

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11	Benz(a)anthracene	56-55-3	I80012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP250926RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.8 µg/mL	+/- 9.0474
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.2 µg/mL	+/- 9.0655
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	200.8 µg/mL	+/- 9.0474

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantor**™



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

W3234 JB
OP4421 07/28/2025

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Roman EIC
ADDRESS: 14 OGDEN ST
CITY: NEWARK STATE: NJ ZIP: 07104
ATTENTION: AMANDA Gentle
PHONE: 973-634 8218 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: New Brunswick LSRP
PROJECT NO.: 25-717 LOCATION: New Brunswick
PROJECT MANAGER: Amanda Gentle
e-mail: Engineer@Romaneg.com
PHONE: 973-634-8218 FAX:

CLIENT BILLING INFORMATION

BILL TO: Roman EIC PO#: 25-717
ADDRESS: 14 OGDEN ST
CITY: NEWARK STATE: NJ ZIP: 07104
ATTENTION: Frank Hotaling PHONE: 973-482-1123

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: ASAP DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1. 2. 3. 4. 5. 6. 7. 8. 9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1. S-1	NB LSRP Stockpile	S			11/10	2:40 PM	3										
2. S-2	NB LSRP Stockpile	S			11/10	2:45 PM	3										
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Karen Amode</u>	DATE/TIME: <u>11/10/25</u>	RECEIVED BY: <u>[Signature]</u> <u>1618</u> <u>11-10-25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>15.76 °C NO ICE</u> Comments: <u>SAMPLER FROM Stock Pile at 19 Home Newark</u> <u>taken AT Sfr Deep / Field sample As per</u> <u>Sketch Attached</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME: <u>2:40</u>	RECEIVED BY: 2.	
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	

Page ____ of CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312